

<110> Fischer et al.

<120> 123 Human Secreted Proteins

<130> PZ010P2

<150> 60/239,899

<151> 2000-10-13

<150> 09/227,357

<151> 1999-01-08

<150> PCT/US98/13684

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<150> 60/051,926

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tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
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agaaaacat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
catcccgga tgagctgacc aagaaccagg tcagcctgac ctgcctgggc aaaggcttct 480
atccaagcga catcgccgtg gagtggggaga gcaatgggca gccggagaac aactacaaga 540
ccacgcctcc cgtgctggac tccgacggct ccttcttctt ctacagcaag ctcaccgtgg 600
acaagagcag gtggcagcag gggaaacgtt tctcatgctc cgtgatgcat gaggtctctg 660
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<210> 2

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Trp Ser Xaa Trp Ser

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<210> 3

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<213> Artificial Sequence

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<221> Primer\_Bind

<223> Synthetic sequence with 4 tandem copies of the GAS binding site found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)), 18 nucleotides complementary to the SV40 early promoter, and a Xho I restriction site.

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<210> 4

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<221> Primer\_Bind

<223> Synthetic sequence complementary to the SV40 promoter; includes a Hind III restriction site.

<400> 4

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<210> 5

<211> 271

<212> DNA

<213> Artificial Sequence

<220>  
 <221> Protein\_Bind  
 <223> Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)).

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 gccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180  
 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240  
 ttttgagggc ctaggctttt gcaaaaagct t 271

<210> 6  
 <211> 32  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> Primer\_Bind  
 <223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Xho I restriction site.

<400> 6  
 gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 7  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> Primer\_Bind  
 <223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Hind III restriction site.

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<210> 8  
 <211> 12  
 <212> DNA  
 <213> Homo sapiens

<400> 8  
 ggggactttc cc 12

<210> 9  
 <211> 73  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> Primer\_Bind  
 <223> Synthetic primer with 4 tandem copies of the NF-KB binding site (GGGGACTTTCCC), 18 nucleotides complementary to the 5' end of the SV40 early promoter sequence, and a XhoI restriction site.

<400> 9



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ccatctcaat tag 73

<210> 10  
<211> 256  
<212> DNA  
<213> Artificial Sequence

<220>  
<221> Protein\_Bind  
<223> Synthetic promoter for use in biological assays; includes NF-KB binding sites.

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cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180  
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240  
cttttgcaaa aagctt 256

<210> 11  
<211> 1142  
<212> DNA  
<213> Homo sapiens

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<223> n equals a,t,g, or c

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 ctgctgctct ccggcctcgt cctcggcgcc gccctgcgtg gagccgcccgc cggccacccg 240  
 gaatgttgcc gcctgtcccc ggagcctgga ctgtgccctg aagaagcggg caagtgtcct 300  
 cctggtgcac atgcctgtgg gcctgccttc agcccttcca naaggaacag caaaggcttg 360  
 ttttgccang atgcgcgggg cttcangcgg gggccggggc caaccanac tngaaatgag 420  
 attgattcct ggcccaaggg agcttgcccc gaaaggaatt tggacatcaa ttccgcccta 480  
 acccaaggag ggacagcggg tcccggagct tgccacctg ggattntcgg cacgggggca 540  
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 ccatgggtta cccctgtgtc atccgacccg gtgcacatgt cggccctgga gccccgggga 660  
 gggcaaggcg acggcntcgc ccttgtgctg atcctggcgt tctgtgtggc cgggtgcagcc 720  
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 gaggagaatg aggacggaga cttcacgggtg tacgagtgcc cgggcatggc cccgaccggg 1020  
 gaaatggagg tgcgcaacca tctgttcgac cacgccgcac tgtccgcgcc cctgcccggc 1080  
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 aatatgttct gctcagcggg gaactgcagt gaggagacac acattacagc cttcactgtc 360  
 cacgtgtctg ctgaagaaca ctttcatttt gtaagccagt gctgccaaagg aaaggaatgc 420  
 agcaacacca gcgatgccct ggaccctccc ctgaagaacg tgtccagcaa cgcagagtgc 480  
 cctgcttggt atgaatctaa tggaacttcc tgtcrtggga agccctggaa atgctatgaa 540  
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 ccagcaccac atttctgctt ctctgaggtc cagagcatcc cctgcgggtg tgacaccctc 900  
 tttccctgct ctgccccgtt taactgcccc gtaagtggga gtcacaggtc tccaggcaat 960  
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 aaaaaaaaaa tcga 1034

<210> 13  
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 <212> DNA  
 <213> Homo sapiens



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tatagtgagt	cgtattacaa	ttcactggcc	gtcgtttttac	aacgtcgtga	ctgggaaaac	840
cctggcggtta	cccaacttaa	tcgccttgca	gcacatcccc	ctttcgccag	ctggcgtaat	900
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caaattgt						968

&lt;210&gt; 15

&lt;211&gt; 801

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 15

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 16

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&lt;211&gt; 613

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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 casggragat saaaaggaca tgcaactaat accccttgaa cagctatgca tgctgctttt 240  
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 tgccataaca tactacctgg atgtatctgc ggaatgtacc cgaaggattg ttggggtaga 420  
 tggagctata aaagcacttt gtaatcsttt gggtgtagtt gaacttaaca acaggactag 480

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<210> 21  
 <211> 1188  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (577)..(577)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1022)..(1022)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1052)..(1052)  
 <223> n equals a,t,g, or c

<400> 21

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cctgtgggtca	ggatcagggt	agcacagcca	cagaagttac	tgaatgtctt	tgttgggtgga	300
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tcactattat	tctctgttga	agttgaagaa	cagaatatta	ctttttttct	ttccattatt	660
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gacagagctg	gggatggggt	ggaggctgaa	ttatgatgtg	tgtatttctt	tatgcttgga	1140
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<210> 22  
 <211> 921  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (111)..(111)  
 <223> n equals a,t,g, or c

<400> 22

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tccttgcagc	cttgtctcct	tccactcccc	tcctccccac	agtcctgggc	tgtagcagcg	240
agtctgtcga	tcccagggcc	agagacaagg	cagacaaaag	ttcatttgta	aagaagctcc	300
ttccagcacc	tcctctcttc	tccttttgcc	caaaactcacc	cagtgagtgt	gagcatttaa	360
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ctgatggtag	ttgttttcac	cattggggcta	actttgctgc	taggagttca	agccatgcct	480
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gaaggagtag	ctgacctgac	acagattgat	gtcaatgtcc	aggatcattt	ctgggatggg	600
aagggatgtg	agatgatctg	ttactgcaac	ttcagcgaat	tgctctgctg	cccaaaagac	660
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tgtattctgg	agaacaccat	tcctgatttc	ccacaaactg	cactacatca	gtataactgc	780



atttctagtt	tctatatagt	gcaatagagc	atagattcta	taaattctta	cttgtctaag	840
acaagtaaat	ctgtgttaaa	caagtagtaa	taaaagttaa	ttcaatctaa	tttttctctg	900
tggaaaaaaa	aaaaaaaaaa	t				921

&lt;210&gt; 23

&lt;211&gt; 1838

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1076)..(1076)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 23

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gatccacctg	cctcggcctc	ccaaagtgt	gggattacag	gtgtgagcca	ccatgcctgg	180
ggcaaaaagat	attttcaaaa	cattgtmaat	aacttctccc	ccaaaccag	acagggtctc	240
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ggcaccaaca	catagttcca	catgaaatta	tatttcgg			1838

&lt;210&gt; 24

&lt;211&gt; 697

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (19)..(19)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (50)..(50)

&lt;223&gt; n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (57)..(57)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (662)..(662)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (680)..(680)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (690)..(690)  
 <223> n equals a,t,g, or c

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 tgtccagcag catccggctt catgggggga cttgaaccct gcagcaggct cctgctcctg 180  
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 gtgctcattg ccctggccgt gtacttctctg ggccggctgg tccctcgggg gcgaggggct 360  
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 ggtcagaggt cggatgtcta cagcgacctc aacacacaga ggccgtatta caaatgagcc 480  
 cgaatcatga cagtcagcaa catgatacct ggatccagcc attcctgaag cccaccctgc 540  
 acctcattcc aactcctacc gcgatacaga cccacagagt gccatccctg agagaccaga 600  
 ccgctcccca atactctcct aaaataaaca tgaagcacia aaaaaaaaaa aaaaaaaact 660  
 cngggggggg gcccggttan ccaatttggg cctaaag 697

<210> 25  
 <211> 628  
 <212> DNA  
 <213> Homo sapiens

<400> 25  
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 atacaaaaga aaaaaaaaaa aaaacaaatc tttcagaatt gtttgaagta agaacaagac 180  
 aagaggaggt gattgggtgtg ttactgttct acgaaaaagg agaaaaagct tcatgaaatc 240  
 gccattcagc aaggacagaa ctggagatgg cttctctttt acaaaagaaat ctctgtccca 300  
 ggctttcagt ctgtttgggtg ttcatacaag tgtttggtgtg ttgtgtggaa ggcgggggaa 360  
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 tcgtcatccc cagccaaact ggctgcaag cgcactgact tccacatccc tagcatttag 480  
 gcctttgaat agaagctgac acgtagcagc cagctgaaca agtatttaat gaggagcaac 540  
 acaactccaa gaagggtccc ttagtgtatt gtcaagttgc tgcagccttg tgagatggaa 600  
 aaaaaaaaaa aaaaaaaaaa gggcgggcc 628

<210> 26  
 <211> 1422  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1397)..(1397)

<223> n equals a,t,g, or c

<400> 26

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tttgaggatg	tgytctttt	tcttggttg	atgtttggta	sgtccttgaa	tgggcaagag	180
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agatactggt	gtctgtgcca	tcctcatgct	cgcgggagtt	ttggcatggg	attctccgtt	900
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aacctgtttc	cagtgatttg	aagatgatgc	tggagggtct	tgaaatcttt	acagtaaac	1020
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ccaagtggtg	atttttcgta	ataaaaagggg	aagagtaaar	amwrwmmaar	maamagtagc	1380
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<210> 27

<211> 795

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (3)..(3)

<223> n equals a,t,g, or c

<400> 27

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ctttcccttc	ttgctgcacc	catgttgcca	cttaaccccc	aggagttatt	tattatcttt	180
ttgttaaagt	caggctcatt	tggggtaatg	tgatgactgt	ttaggtttac	atgacctcc	240
tctcctttcc	ctacccccaa	atatgtatat	atacatatat	aaaatatgta	tatatattac	300
ctatataaaa	tatatatata	tacacatata	tgtatctata	ttcctttggt	tctttgcttg	360
cttatactgg	ccataaaaaga	gggagctgcc	ttcaatgtat	aaagtataag	aagagtgcc	420
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cgctggctcc	ataaaggcca	gctttggccr	ggctgccaca	ggggcctgag	gagctcactc	600
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cctcagaaaa	ctgtactgga	aggatgggtg	gcaggaaact	gtatagttca	gcttccaaca	720
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aaaaaaaaagg	cggcc					795

<210> 28

<211> 577

<212> DNA

<213> Homo sapiens

<400> 28

tagtggatcc	cccgggctgc	aggaattcgg	cacgaggctg	cacgaggttg	ttgagaggat	60
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tccacatttt	gggatgtctg	ttgctgctct	tccttggggg	ggaaagagca	ctggagccct	180
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tcagcctcat	ttattagaga	gagagagaaa	aaaaaagggt	attttaaaaa	aatctgtttt	300
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taaaaatacm	aaaaaatcag	ctactcggga	ggctgaggca	ggagaatcct	atgaaaacgg	480
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aaactttgtc	tcaaaaaaaa	aaaaaaaaaa	actcgtat			577

<210> 29  
 <211> 756  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (230)..(230)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (755)..(755)  
 <223> n equals a,t,g, or c

<400> 29						
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cccagcactg	tgccattgct	tctcccagtt	ctcttcaaag	tcaccatcct	gcttcagcgt	180
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<210> 30  
 <211> 1296  
 <212> DNA  
 <213> Homo sapiens

<400> 30						
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gtgcattttac	cccaagccag	cccgaacaca	ccactgcagc	atctgcaaca	gggtgtgtgt	180
gaagatggat	caccactgcc	cctggctaaa	caattgtgtg	ggccactata	accatcggtg	240
cttcttctct	ttctgttttt	tcatgactct	gggctgtgtc	tactgcagct	atggaagtgt	300
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cactttctcac	atgctgtctta	agggagcaca	aataaaggta	ttcgattttt	aaagataaaa	1260
aaaaaaaaaa	aaaatttggg	gggggggggcc	ccgtta			1296

&lt;210&gt; 31

&lt;211&gt; 1560

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (461)..(461)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (497)..(497)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (499)..(499)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (595)..(595)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (621)..(622)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 31

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&lt;210&gt; 32

&lt;211&gt; 1462

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (7)..(7)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 32

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aaaaaaaaaa	aaaagggcgg	cc				1462

&lt;210&gt; 33

&lt;211&gt; 1272

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1264)..(1264)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 33

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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (459)..(459)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (503)..(503)  
 <223> n equals a,t,g, or c

<400> 34						
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ttctcttttg	ttttacttag	ctgggtgctt	ttcatcttgt	agggttaggtc	aagggactcc	240
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<210> 35  
 <211> 2455  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2277)..(2277)  
 <223> n equals a,t,g, or c

<400> 35						
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&lt;210&gt; 38

&lt;211&gt; 1767

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (765)..(765)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1130)..(1130)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1545)..(1545)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1658)..(1658)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1744)..(1744)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1748)..(1748)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 38

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&lt;210&gt; 39

&lt;211&gt; 1579

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 39

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&lt;210&gt; 40

&lt;211&gt; 1543

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (69)..(69)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (717)..(717)

&lt;223&gt; n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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gattcaatag	cagacttgga	cagaagaaa	aataaacaag	cttaaagata	acttatttga	1500
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<210> 41  
 <211> 2095  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (14)..(14)  
 <223> n equals a,t,g, or c

<400> 41

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cacctgacag	ttacagagga	aaccgcgacc	cagaatgcac	gtgctgtctt	atgggaacac	180
tcagcgcaga	gtgctcaggt	ccggccacac	tggggtgtg	cttggtcgtg	ccatggaatt	240
cctcaggact	ttctcagcct	ccctaattgg	agaagcccct	ttacagcaag	acatttaccg	300
tttgtctgaa	aatagccgaa	ctgagccttt	tcttcaggct	atatgagaag	tctctagaca	360
gtgggcaccg	tcagaaagcc	cagagccttg	tgatagctcc	caccctgcct	ggctcagatc	420
ttcccatttt	tttctctctg	cactaacctc	accttttgtt	tttttgtgtt	tgtgtttgtt	480
tttgtttttg	cagagttgga	ttacagaaac	tcctatgaaa	ttgaatatat	ggagaaaatt	540
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gacacttctc	aggagagccc	tgtcaagtca	tctcccgtcc	gcatgtcaga	gtccccgacg	660
ccgtgttcag	ggtcaagttt	tgaagagact	gaagcccttg	tgaacactgc	tgcgaaaaac	720
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attagagagg	ctgctcacc	aacagacgtc	tccatctcca	aaacagcctt	gtactcccgc	900
atcrggaccr	ctgaggtgga	gaaacctgca	ggccttctgt	tccagcagcc	cgacctggac	960
tctgccctcc	agatcgccag	agcagagatc	ataaccaagg	agagagaggt	ctcagaatgg	1020



<221> misc\_feature  
 <222> (410)..(410)  
 <223> n equals a,t,g, or c

<400> 43  
 gaattcggca cgagcggctt tgggcggaac tggctttgtt gaccgggaga aacgagatgg 60  
 ggggtgaagct ggagatattt cggatgataa tctacctcac tttccctgtg gctatgttct 120  
 ggggtttccaa tcaggccgag tggtttgagg acgatgtcat acagcgcaag agggagctgt 180  
 ggccacctga gaagcttcaa gagatagagg aattcaaaga gaggttacgg aagcggcggg 240  
 aggagaagct ccttcgcgac gcccagcaga actcctgagg cctccaagtg ggagtcctag 300  
 cccctcccct gatgaaatat acatatactc agttccttgt taaaaaaaaa aaaaaaaaaa 360  
 aaaaaaaaaa aaaaaaaaaa aaaaanaaaaa aaaaaaaaaa aaaaaaaaaa aaa 413

<210> 44  
 <211> 735  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (376)..(376)  
 <223> n equals a,t,g, or c

<400> 44  
 gaattcggca cgagtagcag cttgattttc tgttagccta tgaaatgtta ttgtcctata 60  
 aaaataactt taaactgatt taatatattca tatttacatt atatgaaaat caattacatt 120  
 ataaaaggaa tccctaattgc agaaacaaag atgcaacttt caaaattctt attattccta 180  
 tttgtatata cacgagagaa cccaaccagt gcctgtgttt ggggggaaaa gtcaacagtg 240  
 tagttctaaa ctttatccca aacagaaaat gtggktaatg atgtcacttt ccttgctggk 300  
 catcattagg cttaaattaa atgctgaagc tgtcatcaaa gagtttacac taaaatcttc 360  
 agggctttta ataaanggtt aagtccagct tccaaacaca attttcaca ttagcagctc 420  
 caatcttctt aaataaagct ctgttttctt atatttttat gactgctgag accccacagg 480  
 gaccaatatt tgtattcaaa ttacatttca tggtttccca ttgtttcaca atgagttcta 540  
 ataaatggga tttactataa taatccaagt atgacatagc cggatagctt tcatgaatgt 600  
 ttttatgtag attttcctcc catgaacatg agtaataaaa tctgtttcct gaatggattg 660  
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 aaaaaaaaaa ctgca 735

<210> 45  
 <211> 775  
 <212> DNA  
 <213> Homo sapiens

<400> 45  
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 catcttaatt tctaagggca aagggtgatgt tcccagttc gtaaagtctc gagagtacta 120  
 atgctatcaa aagtaattaa tttcaagtggt aaataagacc aaacaaaaac gatcagatgc 180  
 gacattgtct cataaacatg atagactatt aaatcacttt gtgttttttg gaaacagcta 240  
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 acagatcatc tattgtcaca agctaaccat taccctaaca aaatggcggg atacagcaag 360  
 acataagagt aaaaagaaaag aagatgagct gatattaaaa catgaacttc aattgaaaaa 420  
 atggaaaaat aggttaatac tcaaaagagc tgctgcagaa gaatccaatt ttctgaacg 480  
 aagttcttct gaagtctttc ttgtagatga gactctaaaa tgtgacattt cactgttacc 540  
 kgaargrgca atattacagg tttgtatgaa ttcagtatac attatatact ataactctgcc 600  
 aagtgtggtg gtgcatgcct gtaatcccag ctgcttgagg ggctgagaca ggagaattgc 660  
 ttgaacccag gaggcagagg ttgcagtgag ccgagatcac accattgcac tccagcctgg 720  
 gcgacaatag caaaactcca tctcaaaaaa aaaaaaaaaa aaaaaaaggg cgggc 775

<210> 46  
 <211> 506  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (13)..(13)

<223> n equals a,t,g, or c

<400> 46

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acctcctgag	gaatatgggt	taggaaagcc	accgcgctgc	tttctggctg	ggatggctct	180
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gggtcttatt	cctcattctg	cagcagaagc	aactgggatg	ttttttctcc	taatattgtg	300
ctggcttctc	tgcttttctc	tttccggtct	gtatccaagg	ctgctaaacc	ctgggtggctg	360
gctctccctg	ctctctttcc	agatggatta	tggctggatt	ctgccatggg	gagcttgtac	420
agtcagacat	ggaaagccag	gaatgggaaa	gaggtcaggt	ggttctctcc	cacacctcac	480
tgcttgggtg	ctatgtctca	cctcga				506

<210> 47

<211> 1447

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1420)..(1420)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1432)..(1432)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1436)..(1436)

<223> n equals a,t,g, or c

<400> 47

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cacttcggaa	cctgttgctg	tttgacccac	ggaggtggag	gagtaacttt	ttgacatgtt	180
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tcksgcccc	tcagccccc	aacccccaac	cccctcccgg	tccgtgttgc	atgcacgctg	300
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atctctgttc	tctcaagcag	aactcccaac	cagatccatt	cttgaccagt	gaccggctcg	480
gaatctggcc	ttttgtgtga	gatgatcacg	gtttcttttg	tttatcacgc	catttgcaaa	540
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aagttgtcaa	ttggattttc	ttcctaaaca	aacaacaaca	acaaactact	agaagtctcc	660
ctgagtcac	tcgcttggat	ttctgacaca	gtttacaaaa	aaggaaaaag	gcactgctcc	720
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gcaaaaactga	agaaaaaaag	cacagaattg	tttcaacaga	tgtctctcat	tttcagctag	1020
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atttttttaga	tcacctgcaa	ttcatttgca	aattgcaata	aaacacattt	tagaaaaaag	1140
gaaccttcaa	ttattagctt	tgtttctttt	taaatgtata	taaaaagact	aatgtttgtg	1200
aatgaagttg	gctaacatgt	atttagtttc	attttggctt	tatgtaatat	aaagttttta	1260
aaatttttaa	tatggtttta	acctttatgt	gtaaatgatt	ttctagtgtg	accttcta	1320

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ttaatattag acgtctaagg tataatctgta aattagaatc cgactatcac tctgttcatt 1380
ttttttgaac aaagagttta aataaaagcct gaaccagggn acagataaag anaatnaaaa 1440
aaaaaaa 1447

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<210> 48
<211> 1420
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (524)..(524)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (585)..(585)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (596)..(596)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1042)..(1042)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1062)..(1062)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1144)..(1144)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1171)..(1171)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1286)..(1286)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1350)..(1350)
<223> n equals a,t,g, or c

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<400> 48
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ggacagaggg aagagaaggg ccagccagcg gcagtggagt cggcaggctg gctgcccact 180
cgctttctct cctcacaaga ctgcgttccc ctgtcttcga ggatctcgaa cggactatag 240
tctggactcg ctgggctgga ggaaacttgg ccgctggcca cccggaggag actgaaaatc 300
ctttggtcaa cagggcgctt ttccttgaac caaaacaaaa ctttccgaag ccggaaagga 360

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09973228-10101



aacgcccagt	gtcgcctgag	agccctggag	ctgcgcgaga	cccaggcact	gagtgcggcc	420
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ggagcggaat	gtgacccgaa	accgaccgac	ttcctgaccc	atantccata	gttctcttca	540
gcaacttgaa	catttttgaa	aaagaaacaa	tcttaacatg	ccacnaccta	atgganaaac	600
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agaattcatg	agaaattatc	ttcatcctca	agtaaaaatc	atgaggtgcc	tttcacatgg	840
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atttattatg	gatagggggg	atgagtaagt	tcatagatga	aaagggatga	aacaagattg	1020
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catatcactg	acattttacac	ttagtttttag	ggaaagtcaa	atttagaaat	aagctacagc	1140
tctntaagct	atcgggtctaa	ctggattttt	ntcgatgctg	aagaactttt	taaaaaatcc	1200
agccatttag	gtcacacagc	aaatacatct	ggcattaaat	tcctagtatc	actaaagtac	1260
tcctctccac	cgccgcgccc	ccccntttcc	ccccgcaccc	ttagacctgg	gcaagagaga	1320
cttctatcct	ggactccatg	ctttaaagggn	acttacatat	cacacacaca	cattaattta	1380
aaaaggaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa			1420

<210> 49

<211> 1220

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1197)..(1197)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1208)..(1209)

<223> n equals a,t,g, or c

<400> 49

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tgaatagcat	ggtctgggaa	cattccttct	ttattgtggt	tatttgaaca	tgatatgagt	180
ttccaagatg	aaatgatcaa	aaaagataag	taccacaaga	aagttttttt	gtttgggtgg	240
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attctttgtg	gggaaaaaat	gcacttagaa	aaacatagtt	taaatactgt	atataagata	1140
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<210> 50

<211> 1048

<212> DNA

<213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (13)..(13)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (16)..(17)  
 <223> n equals a,t,g, or c

<400> 50  
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 cacaccctct gccagcacct actgagggaa aggaaaagcc cctggaaatg cgtgtgacct 480  
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 aacctaccac cctgttttta catatccaat tccagtaact ctcaaattca atattttatt 600  
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 gacctgtatc attcatggta taaattttac tcttgcaaca taactaccat ctctctctta 840  
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 ccccaagaca aaggcaagtt tccctaagtt tgagttgata gttattaaaa agaaaacaaa 960  
 acaaaaaaaaa aaggcaaggc acaacaaaaa aatatcctgg gcaataaaaa aaatatttta 1020  
 aaccaaaaaa aaaaaaaaaa aaggggggt 1048

<210> 51  
 <211> 968  
 <212> DNA  
 <213> Homo sapiens

<400> 51  
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 gtggaatcat atgcattctg gcgaccatca ctacggactc tgaccttga agatatccct 180  
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<210> 52  
 <211> 586  
 <212> DNA  
 <213> Homo sapiens

<400> 52

0997228-10001



<220>  
 <221> misc\_feature  
 <222> (1001)..(1001)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1089)..(1089)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1113)..(1113)  
 <223> n equals a,t,g, or c

<400> 55  
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 ctctcttgct catgtaaaga ctgggtcaggg acccagggtg acagaggctc ttcagtacat 240  
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 grttacacag gaacttttaa tggaccaggc ctgggacagc gtatgtcact tccaccaaca 360  
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 cccatwccag tgctctttct atgaggaaag tataagtttg agcattttta aaccttaatt 960  
 atgtagaaat aacctatgata ttttatcgta aattatttca ntcactctcat tttaaatttt 1020  
 actccaaact aaaggaaaac ggtactgatt taaaacatct atcataattc aatatagccc 1080  
 atatttctnc tttagggaaa attttttttt gtntttttatc ctgaagaccc gtgcccctctt 1140  
 cctgtgtctc atg 1153

<210> 56  
 <211> 1241  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (8)..(8)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (59)..(59)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (78)..(78)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (84)..(84)  
 <223> n equals a,t,g, or c



<210> 58  
 <211> 849  
 <212> DNA  
 <213> Homo sapiens

<400> 58  
 gaattcggca cgaggtataa tgccattctc ttcctctgtg aagtgcctgt tcgggggtgtt 60  
 gctacgtttt tgttttgttg tgttttctgt tgtagtgttt acatttttct tgtcgattcc 120  
 taagaggact ttaggggtact gagtcaccca tgggtcatgtg ttgcagagaa gtgtcacaga 180  
 gtgaaaactg tcttttcctt gatactacct ttagattcat atttgggaag accttcacta 240  
 atcatgacta cataagtatt cacttttact ttcttaaggc ctttttgttt tcattctttt 300  
 atagtaatgt ctaagccatc tgggaattagt ttgttgatta tgcaagaaaag ggatcgaagt 360  
 gcttttttctg agtcattatc cacatgccga aacattttatt gaatagccct ttccttattg 420  
 atctgaaaac accttcttat aaaaccttgc attggttttt ggacttgctg tgctttcagg 480  
 agtcagaaga acattctttt gattatkgta gctttacatw aataatacat ttkggccggg 540  
 tgcggtggct cacgtatgta atcctagcat tttgggagac tgaggcaggc ggaacacctg 600  
 aggtcagggg ttcaagacca gactggccaa catggcaaaa ccccgctctc aaaaaaaaaa 660  
 aaaaaaaaaa aattagctgg gcatggtggt gcctgcctga aatcccagct actttgggag 720  
 gctgaggcag gagaacctct tgagcctggg aggtagaggc tgcaagtgag cgagcttgca 780  
 ccactgcact ccaacttggg taacagagtg agactccatc tcaaaaaaaaaa aaaaaaaaaa 840  
 aaaactcga 849

<210> 59  
 <211> 678  
 <212> DNA  
 <213> Homo sapiens

<400> 59  
 gaattcggca cgctcttggg ggtagtggat gcggggttgag gggtttcagg tgccctgggc 60  
 tgtcactttt taaaggcttg ccaacctaga ttgagatggg tggtaaagga atcaattaca 120  
 caatgccaca catttgcttg cttctgctga atgccttagt agtttcatgt ttattgctgg 180  
 aagccattct cttacagcat ctagtgtctg gtaacgagct accttaaaat gtaaaggctt 240  
 aaaacagcca tctttgatgt ctttgcaggc ctagaagtca ggaagggtaa ttattcagct 300  
 ccaagtggca ttggctctag ttactacctg atattccagg gtggtagctg gagtgggtctc 360  
 aagggtccaa gctgacctca cttacaagct ggggtgccttg gcagggacag ttaggaggct 420  
 gtgtgtagca gagcctcact cggctcttctg attctccagg cctcttcagt ggtttctttg 480  
 gcacttctta aatgatgtca gggttccagg agttaatgtt ccaagagaca ggaagtggat 540  
 gctgcccatc tctttttttt tgtttgtttg tttgtttgtt tttttgagat ggagtcttac 600  
 tctgtcacca ctgcactcca gcctgggcaa cagagcgaga ctctgtctca aaaaaaaaaa 660  
 aaaaaaaaaa aaactcga 678

<210> 60  
 <211> 857  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (493)..(493)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (562)..(562)  
 <223> n equals a,t,g, or c

<400> 60  
 gaattcggca cgaggggaaa taatgtttgt ggaaaattgc ttagaggaaa tggagtatat 60  
 tactggtata ggtactctaa aatgtctttt gaattaagtc agagttagag ggttgtgtct 120  
 ctaaaccgca tcttactggt attatgctat cagcctgtat tgagagactt tataggtaaa 180

gtccaatttta	ggctgtttgg	tattatctat	taaaattaga	atgttcatgc	tctgtaacct	240
gctactttcca	cttctagaat	ttatctttgg	aagcacatat	ctgtccacag	acctatattt	300
acacacatgt	atgaagaatg	tkttccttca	cattcattca	ttttaacaaa	tgttttgatg	360
tgtagggcct	aagctgattt	gaatgcagct	gaaatgcaca	tatctgggtg	agtcmtggga	420
actgatttgc	atgtgtcttt	ctcttttatg	gcttgaagag	gagagaaatt	tgtgcttagc	480
acattgaagg	gcntacgaga	tacaaggagt	ctgtccttag	ctctgccctt	tggactgttg	540
tctgaaggct	aaagaagaga	gnacaaagaa	agcttgcatt	gggaggctga	gggtgggagga	600
tcacttgagc	ttaggagttt	gagaccagcc	tgggcaacat	agggagactg	cacctctata	660
agaaatttta	aaaattagcc	gggttggcag	cgtgctcttg	tgggtcccagc	cgcttgaaaa	720
gctgaggtgg	gagaatcgcg	tgagcctggg	aggtcgaggc	tgcagtgcac	cgtagattatg	780
ccactgcact	ccagcttggc	aacattgact	gtctcaaaaa	gattatatat	ctctaaaaaa	840
aaaaaaaaaa	aactcga					857

&lt;210&gt; 61

&lt;211&gt; 767

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 61

catgaaaaca	cattctctta	tagtttttta	attcatcatc	caagagttcc	tgtcttttga	60
tgatgagaca	tacctggtag	actccaaaac	agagagcaga	cgcctagtat	ctttgttctg	120
gggtgtgcat	taagagtaca	ttgacctgtc	tgtctccagt	cttgactctt	ttggaagaga	180
gatgctagta	ctgatgacaa	cctgcattct	ggctgcgggtg	tgygtccaca	ctgcacagtg	240
tgcaccagac	tctcgtatgg	acaatgactg	tccctcacat	caggcgcaga	tccatttttag	300
agcctcagaa	gtcaggagag	gggtggacttt	caaccacgac	tgaaaacact	gtctttctta	360
ggacatgctg	tgtgtatgac	acacttacag	atgtctgtgc	tcactgatgc	ttgttgatgt	420
gtcatcgcac	atcagtgaca	aacattttgtc	atgttttttgc	ctttggtgga	acttctttat	480
tatactcact	ttcctcccaa	accatttttct	tcaacttcat	catgaagcaa	atgtcatgtg	540
gtcattctgt	gatggggctc	agggctaggt	taggtgatga	tttctgaaag	ctcagagacg	600
tgaaggaaaa	aggacatcag	tgcttggatc	ttagctctta	taagcctcac	gtgcaacaat	660
aaacccgagt	tcaagaatca	gattcttaga	tagattgggt	tggtagcaaa	tgacaaaaaa	720
ccaacgtaaa	tatgcttcgg	caaaaaaaaa	aaaaaaaaaag	ggcggcc		767

&lt;210&gt; 62

&lt;211&gt; 728

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 62

aaatgatttta	gtgacctata	caagtagcct	gcagtaccgg	atccgaattc	ccggctcgacc	60
cacgcgtccg	gtgaaaacag	cagagtgtct	ctccatacca	ctgggatctt	gtccagtaaa	120
catccagaga	gtgaggttag	gaaataaaaa	gtatataaat	attagatgcc	tagaaatgca	180
agtcacttta	aagattttat	gtgaaataga	aaaaaaaagag	aggagaggga	ctcattgtct	240
tgtaatgggt	ccttcccaga	gagaggtgac	tgtccagtgg	caccggggccc	ttttcctcct	300
tcccctttta	ctcttatcaa	ctaggacaga	aactaagaat	tttggttca	agtggctaaa	360
agactgatgg	gggaaaaaag	aaaatagaaa	aaaataacag	agagactgac	gctctaggca	420
gttacaagtc	caagaaaaaa	gacagaaact	tttaagtatt	gagccaaaac	caggtctagc	480
aamcataatg	ctggccctag	attattttatt	aatttatgaa	gaaacttcta	gatatggggg	540
tgacaaaagg	aaattaaatc	cattatatat	gcataatatt	taatgtaaat	atataataga	600
taaattatgt	atacataata	tataaccaa	ttgaaacagt	tttacaattt	ggtttgactg	660
gaaattcaaa	atccatatat	taatttttgt	agtaaaagtt	tatgtaaaaa	aaaaaaaaaa	720
gggcggcc						728

&lt;210&gt; 63

&lt;211&gt; 944

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (932)..(932)





```

<400> 65
gaattcggca cgagtgaccc agaaggggtga gtcagttggt agtggtggggt gcatgagggc      60
cattgcaggt tttgataatt acccttttatt ttaatttgat cataacttttt tgtttataac      120
cttattctaa aaataattca aggtgaccat gcttccatta tacttcttgc aaccatacct      180
atctttgggtg atatttatta tgtaagggga caattggcat cttttggccc ttacctgtag      240
ctattctatc atctggagat tatctccaga cacaaatcca tcgcccattg ctccatcgag      300
gcacantcag ctckttgtag ttgccattgc ccctctcgag ccttctccac atagccacat      360
gcaatccatt cccaaaaacc tagctcaatt ttcctcatca cagatgtttt ccctgaccct      420
ccagttggta tatatctcct cc                                         442

```

```

<210> 66
<211> 833
<212> DNA
<213> Homo sapiens

```

```

<400> 66
gatcttgtcc aagcagtcgg ggctacttcc aagaatgtca gctcctgtta gcaaccagtg      60
gagtctggcc ttgggctcta agttgacctc tctatagctc caaatcctac caatctcaga      120
aaactgtaag aggcacagat gactccacca gctgcagagt gactctgaag agagtcttca      180
cttactgcac aggcacaagaa aggcacagga atatttccta cctctccctc ctgtgagtcc      240
cacctccccc cacccccata tccaggaggc aggtagagca gttctraccg agaggataga      300
ctgctgttgc tgtctttccc cagctctgaa ctagttttaa ggtagcttag gatgaaaaat      360
ggagaatgat tgggggttcc aaaccacttt yttctccctt ggcttatatc tcttcaccat      420
ttggtgggtca actgtgggsc taccctggac ctcatctact cagcgagaat tggacatgaa      480
gctagaggca gctgccttgg aagggagagtm aggtcactt ggacagccca ggccatggca      540
ggaagaatcc ctctctcttg gggtccttga tgggcatgtg tgatggggaa ggagcagtct      600
cccagccctg ggtctgctcc ccacatctct cctaattcca cttcaccttt tgccaccccc      660
tccccaccag aggcctagcc cttttgtcac cgaaggcccc cagagtgttt ctgtgtgaaa      720
ccctctcatt tacactgtgg catcaaaatc cacaaaagat ggattaattg cactctgggt      780
aatagcagca gcacaatgat taaaatctat attcctaaaa aaaaaaaaaa aaa          833

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```

<210> 67
<211> 1262
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (621)..(621)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (641)..(641)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (722)..(723)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (726)..(726)
<223> n equals a,t,g, or c

```

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<220>
<221> misc_feature
<222> (730)..(730)
<223> n equals a,t,g, or c

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<220>  
 <221> misc\_feature  
 <222> (1259)..(1259)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1261)..(1261)  
 <223> n equals a,t,g, or c

<400> 67  
 ggcaccagaa aaaaaaaaga taatccaaag aattttaaatt gtaatcatgt ttcattgtatt 60  
 tgttttatta cttactttta tagcacttag tcccagtggt attagactgc tatttgggtt 120  
 catacaaaaa ggattaaatt taaattcatt catgtttaga cttgagttat tacattttta 180  
 aaactatcat cttgccttta atgtttgtgg tcctacacaa actattagta catttcagta 240  
 tcctcttacc cctttgtttt taagtttttg attgctaaag caagactttt ttcttctaga 300  
 atttaagtca accaagtgtt atctatgttg taaaaatgga taatagtaga ttttaggtga 360  
 taaaacaact tgtagtaag acatttccta gcttaaaaaa aaaaatcaaa aattccatga 420  
 tagaaatgca gacctgtgag ggaaactcct gaaaagcata agaagcatcc cagagagcca 480  
 tgggttttct agaccagaga atttagaggg agattgtgga actgaggctt aggtgggtcag 540  
 atcgtttccc ttatcactgt aatattttct gggggaaaaa tgctttctga gttgtttaaa 600  
 caagcatcct tacatttttt nttaattaa aacagcctgt ntagggttg ggattcccta 660  
 atactacagt agcagtatat gaatatgatt ttgtgattgt gttttttaaa agataagtaa 720  
 tnngangaan tggtcttttg cagtcagaaa aactcacaa aaagacaaaa aaagttccac 780  
 agtattatat ttcattgtcag ttcaggccta aaatccttg caaataagat gtttataggc 840  
 tggtcacaat taacaatgtt attattggca gcacttcttg gatggatacc ttttgggacc 900  
 tttcattaga aagagggaaa gaatggggtg gttttgtatg ggctcctgtt tggggtaaaa 960  
 atagcagagt cagttgctga ggaccaatga cctttcctta taaacattta gtttcatacc 1020  
 catattaggt cttgtcttga ggacccttta tatgtgcttg tttactagt gccttccagc 1080  
 catagcattc ttaccttttt ttctatttct aagaattaaa aaaaaaaatt atagagccag 1140  
 caagggagga ggcaggaaac agaaatcgaa tttcatcatt ccagtatagt tgctcctttt 1200  
 tttgtatttc tgacttgggt ttataattat atttacttac taaaaaaaaa aaaaagggna 1260  
 na 1262

<210> 68  
 <211> 921  
 <212> DNA  
 <213> Homo sapiens

<400> 68  
 ccacgcgtcc gaccatgcca aattttcttgt gggtccctaa atgcgccatg tttgaagata 60  
 ctctgaggac attgtatata cttttgttct acctgagata catttgctta ctttctccac 120  
 atattgccct catgacactt atccttattg atggatttct tcaatgctac tattgtgcct 180  
 tacatgtgcc ttgtattata gcatttttat agcatttctc acccaattgt ggctatttgt 240  
 ttacatgtct gtctccttgg tggaaactgt aactctgtca taacagatgc cattttatgt 300  
 cagttagact tctttgggtg ccagtaagag aagctgactc taatctaaac caaaagggaat 360  
 tcattggacg gatgtgggtt ggctcacaaa atcaaaggga caactgcgga ccgatcttgg 420  
 aatgatgctc tgacaccaga acagctctgt gaattcagat aggggtagt aattgaccat 480  
 ttcatcaaat gctgcagcaa gctaggtggt ttcccaaag gaaattgagg agtggtacaa 540  
 gaagaccatt aggggaacgg ttatctgggt gctgataata acaaatttcc atggcagctc 600  
 ctttgctctc tggttgaaga ggtactccac catgggcctt gagcatctct acacatcctt 660  
 gctaagcgtg tcaaatttca agtcctaact gtcctctgtc tctggaggag gagacaggtt 720  
 tggttactgt ttgttgtaaa aattactgag cccttcacca tgggtgcctc agctgtatgc 780  
 aaagccctt gtattgctgg gggacagagc aactgggtact gccatgctgg tgctctggct 840  
 gtttgctgtt ggcaataaac tattctgttt tgggtcaaaa aaaaaaaaaa aaaaaaaaaa 900  
 aaaaaaaaaa aaaaaaaaaa a 921

<210> 69  
 <211> 478  
 <212> DNA  
 <213> Homo sapiens

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<400> 69
tttttttagca tttcacgcta tttattcccc aaaaccttct gccatagaag acagccacca      60
tacagattgg aaaatgtgga cgaggagaaa aggggtgtat ggtaagcaaa ataaattgta      120
ttttccatcc ttggggagga taaaggaact ctttgcactg ctataatgaa cagcccccaa      180
atgccagtgg ttttaattcag tggagtccag acctcattcc tatatcattg cagtgtggat      240
gctcctggat gaaggctctt gtaggtaact ctctccagtc cggtgattca gggacccagc      300
ctccttctgc cttgcggctt tgccttttaa aggtcctcag ggtgctctcc atgtatcttg      360
ccaatgggga acgagtgtgg aggactcaca agcgggtcyc acatcacgtc ctccggggct      420
aatacacatc ctttctcccc acactctgtt ggtcagaagt cactgcttgg cgccctgc      478

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<210> 70
<211> 719
<212> DNA
<213> Homo sapiens

```

```

<400> 70
gaattcggca cgaggagaaa ggagggaagg cacagcgctg ggcagagatg ccagaaaacc      60
tagttctaata cttggccttg ctgctgtcag tgtgtggcct taagcaagtc atttttctct      120
cggcctcaat ttactctaaa atgtgtaccc tcatagctac taagaaagtt gttgcaaaaa      180
ctagaaatga tgcttactgg tatttaatta gtctcaaaca catagtaggc ttttaacaat      240
tagtggctgt ctttttcatt attattaggc gcttcaattt ttacatgttg gcaatctcaa      300
acataccatt ttcttttttt taaaaccctt ttttttkttt ttttttttga gacagaatct      360
ccagcctggg agacagagca agaccgtgtc tcagaaaaaa gtggggcccg gtgcagtggc      420
tcatgcctgt aatcccagca ctttgggagg ccagggcggg cggatcacao gatcaggaga      480
tcgagaccat cctggctaata gcggtgaaaa catgtctcta ctaaaaatac aaaaaattgg      540
ctgggcttgg tgggtgggag ctgtagtccc agctactcag gaggctgagg caggagaatg      600
gcgtagagccc gggaggcgga gcttgcagtg agcagaaatt gcgccactgc actccagcct      660
gggcaacaga gcgagactct gtctccaaaa aaaaaaaaaa aaaaaaaaaa aaaactcga      719

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```

<210> 71
<211> 519
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (13)..(13)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (24)..(24)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (35)..(35)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (44)..(44)
<223> n equals a,t,g, or c

```

```

<400> 71
acaaaaagct ggnagctccc accnccggtt gccgnccgct ctangaacta gtggaatccc      60
cccgggggctg caggaattcg gcacgaggtt ttgttttgtt tttttctaata cctgctttca      120
tactagccag tgtggggaaa aggtacaata tgtcaaagag atgagagagt gttatttctt      180
gggcaatttt ctattagtgt ttcttatttt ggccagttct tttatttatg tccttgtgac      240
ccagggtactt gggggggccag ctacccttct gcccttttag cgtctttgaa ggagaccaga      300

```

catgagtga	tacctaggag	agtgtcagca	tgtttctgga	aaattggcag	agaccaagcc	360
ctgctgcaga	ttcgtcaggc	caggtgaaa	ggccaggcag	ttgcagctga	tgatgtaaat	420
attttgtaca	gtagataaat	aatgttttaa	aaaaaaaaaa	aaaaaaaaaa	aaaaraaaaa	480
aaarwaaaaa	aaaactcgag	ggggggcccc	gtacccaat			519

<210> 72  
 <211> 826  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (726)..(726)  
 <223> n equals a,t,g, or c

<400> 72						
ggtcgaccca	cgcgtcgggc	tccctttggt	ttggtggcag	ccttcttggt	ctgtatactt	60
gttccctagg	gtgtataata	atatgtgcac	tagagtgcta	ggtaccctac	cacattgctg	120
ggaccttgcc	acactgctgc	agccttccag	taggatatgg	gggaatgtca	gtgaggctcc	180
agggatgtag	atatgtaggg	aatgttggac	cccagggcaa	catgcaatct	ggtaggagtt	240
gggctctcaa	aatgggtgctg	ctgtgtaaca	gctgcttggg	tcttggggta	gggagtgtag	300
gacccagcat	gagctccctc	tttgaggcag	tgctgtctga	gactccaggc	agctccgtgt	360
attagtctca	ggacctgcaa	aggcctaggg	gctctttttg	ggtaggactg	caggagtctc	420
catggtggga	atgtgaacca	ctggaaatct	ctcatttacc	atttccctgt	actggagatg	480
ctttctgggc	tcccagatga	tactarctgg	gctggttgcc	tcamttcctt	ctccctctgt	540
gcataaggca	ttttctgtca	cttctctgct	gaactctagt	gttctttctt	agaggctgta	600
ctcaaaagtt	cattatccat	tcagtatttt	tattcttctt	tgtggagggtg	gcaagtgcta	660
ggtgcctcta	gtcaatcac	ttgaagcccc	ctggttatgt	aaagtcttta	atggaaaaag	720
aagacnacct	gcatgaccag	gcagatactt	tgagcagagt	cataggaact	gctaaaaaaa	780
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaagg	gcggcc		826

<210> 73  
 <211> 911  
 <212> DNA  
 <213> Homo sapiens

<400> 73						
gaattcggca	cgagacgaca	atggggaaacg	cggtgtttcc	cacctcttgt	gggtagaaa	60
cagtctgctt	tgaggaggcg	agaaggcaaa	gccaggggcag	ggcgttgctg	tgggaagcgt	120
tcggtgaaag	crggtttcga	cgcttaggag	ggccgaggga	gaagattcca	ccagcattgt	180
ccttgcttca	agtttttagga	tgtctgaact	ttcagctttc	atgttttcaa	ccatcatttt	240
tttaatggca	caacctacat	cttgttttta	aaagaagtag	cctcaaatta	aactcctaaa	300
ctctgatgcc	ctggggatga	gaacaactag	ctkggatctc	gtgccgtgta	atcaatgttt	360
cattccgctg	cctccatcat	gtaatagaat	cgcttccaga	aaggcagtta	actggaagca	420
gcagaggctc	ccagccgtga	gaggactgct	caacaatgcc	ccccatcgcc	gccccccac	480
ccctcgacc	ccttggtgtt	tccccctctga	ggggcccaag	ggttatggct	ttcatgtcta	540
ggtgtgggga	cagaggaggg	agaggcagat	ccygggcccgg	gagaggatgg	ccctgggtctg	600
aatctggagt	aattaatgcc	cacccaaaga	aaaggccctg	cccagggtcca	atgttgtctt	660
agatctgatg	atgctgctat	ttacaaaaca	ctgatcgctc	gaaagcttga	atctgttcc	720
cctcgaatga	ccctgtagat	gcctgacctc	caccgtacct	ccacatcact	attcatgtcc	780
ttctaggaaa	atgtgcacat	gcctcacgca	ctatgtggga	agggcggtgt	tttaaattaa	840
taaagtgtgt	caccattagc	catamraaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	900
aaaactcgta	g					911

<210> 74  
 <211> 722  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> (2)..(2)

<223> n equals a,t,g, or c

<400> 74

gnaattcggc	acgagaaaaa	tttacgggta	acactgaggg	gtgggggtgga	aagttttgat	60
cataaagtgg	tcaccaacaa	gggcacttct	gaggtgctaa	tgatgttctg	ttttctgatc	120
tgggtcgtgg	tgacattcac	atattcatta	aattgtacat	ttgttttaca	taagtttatt	180
atatttccta	attttaaaaa	agttaaaagg	aggaggaaaa	agttggttat	gaaagtgtaa	240
ccattcttcc	aaaatatcaa	ttaaaacaca	tctgaattaa	gaggtaaaat	atatcaaaga	300
ttgacagaaa	acaaaagctc	tgaaatgata	tttccagcct	aagaacagtc	gttgcttttg	360
ttggtttagg	aagttttggt	ctcctgaact	aatgttcaaa	atgaaaaaaa	gtcacctggg	420
ccaggagcag	aggcccacac	ctgtaatccc	agcacttttg	gaggccgarg	tgggtggatc	480
acaaggtcag	gagatcgaga	ccatcctggt	taacgtgggtg	aaaccccatc	tctacaaaaa	540
tacaaaaaat	tagctgggct	tagcgggtggg	catctgtagc	cccagctact	cgggagattg	600
aggcaggaga	atggcatgaa	cctgggaggt	agagcttgca	gtgagccgag	attgcgccac	660
tgtaccagcc	taggtgacag	agcgagactc	cgtctcaaaa	aaaaaaaaaa	aaaaaaactc	720
ga						722

<210> 75

<211> 845

<212> DNA

<213> Homo sapiens

<400> 75

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cctttacctt	gtagtacaag	gtgctttaat	gggatagaac	taagcatatc	aatatctata	180
actgcatttt	gtgctagaca	attactgttc	ttttctctaa	aatgtatatg	tcaattttaca	240
aggccaggga	tagaaaacac	tccataattg	ctttccttga	ttttgctgag	gatttggtat	300
gatttttagta	agcaaaactgt	tttttggttt	ttccttaatg	tttttaattt	tttttcctct	360
tgcaacaatg	acggtgcatg	ttcttataaa	tataggaagg	tccagatata	aatagtaacc	420
taaagtctct	gctgtgctta	aaaaaaaaaa	tcatgtggcc	ctttcaatat	ttgaactgct	480
aagcaatgac	atctgtagtt	ttatctcctt	ttttatgtca	tagaaattaa	tatgatactt	540
taaatatgta	aatataatac	attaggtaat	gctattatgt	atatctgtct	taacataatt	600
taagttgtag	ctgtgtcttg	gaaatatttt	taaggtaatc	tatattcaca	ttgcctgtgt	660
taatgctttt	taaagtttgt	atacatcaga	tgtatatttt	tggtttggca	taagctacga	720
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taatttacaa	atggttgtga	ataaacacat	ttttacactt	aaaggwaaaa	aaaaaaaaaa	840
ctcga						845

<210> 76

<211> 882

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (881)..(881)

<223> n equals a,t,g, or c

<400> 76

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ctttccctgt	cttgttccat	tttcttttct	tttttctttt	ttctttttcc	tttctttcgt	120
gggctgagaa	aggggcaggc	aaaatgaagc	tggccactga	aaactgtaag	atgggtcaaaa	180
gctgacagcc	tgtgtatgtg	aaaagggaat	tgtaaatgga	ctgcaatgta	atgtacactg	240
taatttgaat	acaattactg	tatctaaaag	gagctgctat	gaagtacctt	tcttatgttg	300
ctaggctact	gtttctgaaa	gccctggatc	tctttgcacc	aaaaatggtc	cagatagact	360
cttttttaagg	atcttggtcg	cttttttacta	gaaggttgct	tttatgagca	tattttatact	420
gctgaaggat	gagtgttaat	tttaattaac	tttgccgttt	tgtagagaaa	actattccac	480
aagataaatt	ccaagtcttt	tcacctgtca	ggcatgcata	ttttaatatc	tgtttggtata	540
gtcagaagta	gaatcataaa	ggtaaaatat	gagttgttac	tttgtttctt	cgatgtcata	600

ttttatgtgt	aatatatatg	taaagggcca	ttcttaagtt	ctctccttaa	acttaatgct	660
gtcaagtgtt	agatgtgtgc	atgtgaactt	gttgcactgc	agaaacatat	tcagagttaa	720
tctatgtaac	ttattcactc	tgtaaataca	tttaaagttt	ttgtgatgta	agcttaattg	780
atattctgtt	cagaacttty	tttagwctaa	araaagttct	gaacagaata	tcaattaagc	840
ttacattgat	attctgttca	gaactttctt	tagctagaaa	na		882

<210> 77  
 <211> 1590  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1374)..(1374)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1397)..(1397)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1516)..(1516)  
 <223> n equals a,t,g, or c

<400> 77						
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catccacctg	ggaacagatc	aagaagctgt	cacagatggt	gggagaaaac	ctgaggaaaag	180
cgggacaacc	agtcacaatg	agtaatttaa	tggtagctat	gatagcagtg	atcaccattg	240
ccgtgagtat	tccttcaaca	agggctgaca	cagagatcag	ttatacttat	tgggcatatt	300
tgtcaatttt	ggctggcaat	aatgcctgga	tataatcact	ttatgacaca	gttacacatg	360
ctttctgggt	tcaatattta	ccataataag	tctgctccta	taattgaggc	ataccaccct	420
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cacactgtgt	tcaactggtc	tgaacagaat	ggtcagatgg	tacaaatggg	aagacgtatg	660
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tggcccatg	taggagctaa	acataaggat	ttgtggcaac	tgtaaatagc	tcttaataag	780
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gatattgcaa	aatatatata	tatattttaa	gcatcccagg	cacacctgac	cttaatgcca	900
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taaaaaact	tagaagctct	gtgatttcaa	tgatgattgt	gcttttaatc	tgtgttggtt	1020
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gccccaaaat	ctggccataa	actggccctt	aaactggtca	taaacaaaat	ctctgcagca	1200
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gagcccatcc	ctttacntcg	gcccacccct	ttatttccca	taaggaatac	ttatagttaa	1440
tctatagaaa	caatgcttat	cactggcttg	ctgtcaataa	atatgtgggt	aaatctctgt	1500
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aaaaataaaa	acaaaaaaa	aaaaaaaaa				1590

<210> 78  
 <211> 1373  
 <212> DNA  
 <213> Homo sapiens

<400> 78

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aaaaaaaaaa	aaactttcag	aaaaatgata	atggaggaga	tctttctcaa	cttgataaag	120
aacatctaca	aaagccccta	cagccaatgt	aacacataat	agtaaaagac	taattgcttt	180
tctccaatat	cagggatatt	agggacagag	atgtctgtcc	tcaccactct	tattcaacat	240
attgctggaa	gttctgtcta	gtgcagtgag	gaaagaaaag	gaattaaaaa	gcatgcagac	300
aaaaagaagg	aaacaaaact	gtctctatatt	gcaaatgaca	tgattctcta	aataaaaaat	360
ccaaggaat	ctacaaaaaa	aactagagct	agggtggggtg	tggtgggtca	tgctgtaat	420
cccagcactt	tgggaggctg	aattaagagg	attacctaata	ccaagaagtt	caagaccagc	480
ctgcgcaaca	tagtaagacc	cccatctcta	caaaaaattg	aaaaattagc	tggtgtatt	540
agctactcag	ggagctgagc	tgggagggat	tggttgagcc	agagagggtca	gggctctggg	600
gatccatgat	cacatcacca	tactccagcc	tgggcaaccg	agtgcagacct	gtccttaaaa	660
aacaaaacaaa	aacaaaactag	atctagttag	agttcagcaa	gccctcaagc	tacaagacct	720
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tttaaaagat	agtaccactt	aacaattggt	tcacaaaaat	gaattacctg	ggcataaatt	840
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agcaaaccca	aagaagtggg	gacacatacc	gtgttcattg	actggaaggc	tcagcagaga	960
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gacacaaggt	caatgaaaca	gaatagagaa	cccagacata	gacccacaca	agtaccacca	1260
gtggatttgg	acaaggtgca	aaagcaactc	attggaggaa	ggcagcctat	ttagccaatg	1320
tgactggagc	actggatacc	cataagccaa	aaaaagaaaa	aaaaaaaaaa	agg	1373

<210> 79  
 <211> 1107  
 <212> DNA  
 <213> Homo sapiens

<400> 79						
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gtgatttatt	ttgtccagta	ttaaggaatg	gttatcttta	tcattcttct	aacatgtttt	180
ggtttctcta	atggttcatt	ttccttttag	ttgtgaaaat	tagggcagtt	tgctccagagc	240
cttactcgca	ggagacacca	gacccaaccc	atgcttagat	ttctgttaat	aaaagggaga	300
agggtatttg	aataggtagt	aaaggcaggt	acaagttaa	gggagcaggg	ctatcatatg	360
tactaggtga	gattactata	aatgtctgaa	aagttacatg	catagtcatt	ggctcaggta	420
atttctctga	atttgaactt	atttgattta	tttaaccaag	ttattataat	atgcagttct	480
ctttaatcaa	tcttctatta	ttcaatcatc	tatccattta	tttaattcaac	aaatatattat	540
taaagtgcct	accatgatta	tgtgctgtag	aaaagacaag	gacatttact	aggggggatt	600
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ggcaccagtt	cagctcaact	ttagaattca	gcagtaacag	tacagatggc	ctaaagtaca	720
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cactacatat	gtatacacac	tatctatgta	aaatataata	tatgtataat	gcataataat	840
tctaacaagt	gtatttgtgt	tatcttttaa	atagaacaat	tgtatcttga	agtggtaaat	900
gcagagaatt	ggttttattg	ttgatctgtg	gatttaattga	tttctaggtg	aaaaggacgt	960
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tgacttgaaa	aaaaaaaaaa	aaaaaaa				1107

<210> 80  
 <211> 1129  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1053)..(1053)  
 <223> n equals a,t,g, or c

<400> 80

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ctcaggtcag	gtatgtcccc	aggaagggtc	tcagtggttt	ctttgcaggg	atcacagcta	180
tgtcttttgg	tatctattgc	aatcatgggt	ttgtctctat	tttgaatttg	tctgtcttat	240
ctcttggaca	tcaaaagtgc	ccttcagggt	aggcatgcta	cttggtttat	atctgccacc	300
caatttcaac	tgtaaaatcc	taatcacaag	tggcaactag	ataggttaaa	atgatttctg	360
gaactttcct	tctggacatg	taagatccta	aaatcttacg	agaatttcag	tgagttgatt	420
ttgtctttaa	tattttttct	taggaaaaag	aagaccatt	ttgaatctgt	tcaactgaaa	480
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tctttatgac	gtctacataa	caagtgtgat	ttggaaggca	catgtgagca	tatgcattat	900
gatccaattt	atgttttttc	tttgtttata	ttttggggaa	aattaaaatt	tttttaagggt	960
atatttttcc	cattatttat	tttcctgacc	ttaaaacagc	ttttctacta	aaaaatgggtg	1020
agcaatgaag	acaataaatt	tttcattttt	ccnaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1080
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaccc		1129

<210> 81

<211> 1987

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1554)..(1554)

<223> n equals a,t,g, or c

<400> 81

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takakgagaa	ggagcaagct	gcgctgagcc	aggccaacgg	tatcaaggcc	cacctggagt	360
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cataataaat	tgctaacttg	cgtatwaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1980
aaaaaaa						1987

<210> 82  
 <211> 2053  
 <212> DNA  
 <213> Homo sapiens

<400> 82						
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aatccaaata	attccactgc	tatgctgaga	aaaggaatat	gtgaatacca	tgaaaaaac	360
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gaaaattgga	aattgacagg	gtcttgctct	gtcatgcagg	ctggagtgc	gtggtgccat	900
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ccaaaatcaa	tctgcatccc	agtggactca	tcagtcaaaa	atcaagtatg	actggtatca	1440
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agttttgagt	accaactggg	ctgatgtagg	taaaaggaaa	gttgaaatca	atcctcctga	1980
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aaaaaaaaact	cga					2053

<210> 83  
 <211> 1193  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1080)..(1080)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1186)..(1186)  
 <223> n equals a,t,g, or c

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<400> 83
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gggatgaaga gtgttatattt cattcaaagt gttattttgt ttttccttcc aatgtctgga      120
gaccaccagg gcatctctgg gctggatgag ctcccacaag cctgagggaa aggccagcac      180
tcgctagcag tggcaggcag aggccaggc tgccgtcccc tagagtccca ggttggctct      240
gccagtgcct gtcctttacc aaagatgaat gaagcaaagt tcatgctgcc ttattcaggg      300
aaggaggagc ctgtcctgcc tgtggccatg accctgcctc tcccaggcag gggcccgcga      360
tgtggaactg ctgccactga ggggggatcc agttttgtca atgcagttgt ctctgtttta      420
caagttggag tcactcttat gctgtaccca gtttctaaac tggagactgt gtgtgccctc      480
tggctctgag tacccttgct ttgggcttgg gcctaggctg cattgaaaag agctgaaggt      540
tgtggccttt gcgtcctgg cccagccttt gttccccact ggagcagaag gggagatgga      600
cgacacggts ggggcatctg gcctggccag tgccctgac ccagagagcc cgaggagggtg      660
tctcaggctg cctgagtcgt gacctgctag gccagagccc actccatctg gtagaaggga      720
aagcccatat gctaccacca gctgtgtcca aaaccgccag ctctgttctt cctcagccag      780
cctcgcccat ccccttgagg tctcagcccc tttcccttgt agtcctccc ctggaggggg      840
aatggcagca ggggttgagg aaacagcatc tccaagcagc ttagagttgg ccatatttac      900
ctcagcctgg gcgttggtcc tttcttccgg cccctcccct ccaaatgtg cctattgcta      960
gagtcctcc ctctcaacac ccagtttctt tgggagttgt cattaaagga aaaaaaaaaa     1020
aaaaaaaaag ccagtgccca gggatgggca tctccaggga gctggggatt agtgccagggn     1080
agccctgccca gccatgccta catccccatg ggcacagaac aagccaaagc cttcgttgta     1140
tgttgacgat gcacttttat gaaatgtagt ttctatcgct gttttnagcc ttt             1193

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<210> 84
<211> 541
<212> DNA
<213> Homo sapiens

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<400> 84
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aagggtgttt tgtctttgag aaaggcaagg atgaagggca agatttgagc catggtggta      180
gatcagaaag aagatctgat aacaggctta gggatcaaaa tggtaaggaa atggcttcag      240
gggagtcagg cctggccccct ggagagggag gagaggggaa ggctaggctc tttatgtaca      300
tgctgtccat ggggcctggg aagattcmtg gaatcactaa cccatttcac aggtgaggca      360
attgagcctc tcagagctga agtaactgac ccaaagcatc cgtgctcttg tgtggcagag      420
ccagaagtca aatccaggtc tctgtgamct caaggggcac caaartgagt atcaaaaagg      480
cagaaaggga cttatccctt cactcactca gcaaaagcat agtaagcagg tggcgtgcct      540
t

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<210> 85
<211> 985
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (633)..(633)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (642)..(642)
<223> n equals a,t,g, or c

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<400> 85
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aggatgttga cgatgccccca aacttactgt agctgtcagg aaaattaggt gagctattta      120
gtatcattga gcttcatttt acagaaccag catgttgtcc ttagacttcc ctctgacct      180
tttaggtctc aacttacata ttgccctctt gagccttcta gttcccagac tgagtttagga      240
accccaaccc atgctggact cagttagtcc tttccacatt gtgctgtaat tggctatacc      300

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ccatctgtcc	ttcctgccag	actaggagtc	tcctgcgggc	cctaacgttc	ccaatttccg	360
gtgtttggac	tggtgctctg	tagatgttta	gggaatgaaa	gggtaatgaa	taaattaatg	420
aaacaaataa	gaatcatata	gtattagcag	cactagataa	aagggtgtaa	atcttaagt	480
atccaccatc	ttttaaataa	ttcattcaaa	cgatatttca	aatgcatatc	acctccaaga	540
aatcgtttct	gcatttcrrs	tgasttctac	gatgccwrt	gaatgarraa	rsrrgracak	600
ggyrtggttc	tggggggctg	tgagagtaac	ggngcaatcc	tngtcattgt	cgtagttatc	660
tggccatcca	gggcttctca	ggttgccaaa	tgcttctgtg	tagtctctgt	tgcaatctta	720
gaggaaaaat	aggcataatt	aatgtacgca	ttccaatatt	tagtgctctt	tcaacttaca	780
caggaatcat	tcaaaaagat	cattgcattt	gataaaactt	agaaaaaagt	aatccagctt	840
cttcgtttac	ctttgagata	attgagaccc	tgagcagtga	agtgaattgc	tcaagcagca	900
cacacaggtg	caacgcaaca	gctcgttcac	acaaacacgc	ctacaggaag	catgacacag	960
gaggcttctc	ctttaaagac	gaata				985

<210> 86

<211> 889

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (117)..(117)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (292)..(292)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (341)..(341)

<223> n equals a,t,g, or c

<400> 86

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ataaagtaga	atacagagat	tccttgctca	tagctcctac	tgctatcggg	gaacaancct	120
tgagggtgag	aacgtggatt	gattccttgat	tgatagtggg	gattccatta	tctgtatttg	180
gcagttatgg	cctgctgcgg	tgtatagaag	cttctttcca	ttcattttcc	cgaattttca	240
tactgctcaa	ggaacagttg	ggggggaatg	ggcagaaggt	tgggcacttg	angtatttga	300
gctatcggta	ataactgact	ttttagggcg	cacagatttg	nagtagagcc	atggtagtag	360
ttagtaccaa	tgggtttttg	ctgcttctac	tctttcttaa	cagaaaaagt	ggatttgtgt	420
catataggaa	agcagttcac	agactgtctt	cctgcccctc	ccgccaccaa	gctggacct	480
gaatcaagt	tgactttaaa	tggggaaagc	tgtgttacag	ttgtgcttaa	gccactgctg	540
tggcttaacc	tcacctatgc	ataagaattt	gctcgtggct	ggccgggccc	ggtggctcga	600
gcctgtaatc	ccagcacttt	gggaggctga	ggcgggaggc	tcacgaggtc	aggagattgg	660
gaccatcgtg	gctaacacgg	tgaagccccg	tctctactaa	aaatacaaaa	aaaatttagc	720
gggcgtgggtg	gcgggcgcgg	ctagtcccac	tactgagtc	caggctgaag	caggagaatg	780
gtgtgaaccc	aggaggcgga	sttgcarcga	gccgagatcc	tgctactgca	ctccagcctg	840
ggcgaagcga	gactctgtct	caaaaaaaaa	aaaaaaaaaaa	aaaactcga		889

<210> 87

<211> 558

<212> DNA

<213> Homo sapiens

<400> 87

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gtgcctcgtg	cacatggact	gtgcatgtgg	attttgccta	aggtcagcct	tatatgcatt	180
gtggaactag	ggtatggaaa	accatgaaac	atgattattt	tcttctagca	tgctgtctta	240
tgacttcaac	tggtggtatt	ctttgtactt	tataatctac	attatcatta	atacctacat	300

cttcaagtct	gtctttcttg	ccatgggtgta	cagcaattat	aggaagcatt	ttcacatact	360
gtgtgtgtgt	gtgtgtgtgt	tttgtagtga	tgaacagaac	ttgttattta	cccaattcta	420
ttatctatca	taatagtaaa	ttagctacta	taatagacaa	aagtatgact	ctcagttaaa	480
taagagattt	tttaaaaact	tgttacaaaa	aaaaaaaaaa	aaararaaar	aaaaaaaaaa	540
aaaaaaaaaa	gggcggcc					558

&lt;210&gt; 88

&lt;211&gt; 931

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (930)..(930)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 88

gaattcggca	cgagaaccag	atgtttttcc	acacagaatg	ctagtctctt	aagacacagg	60
ctgggtgaca	tgtttcctta	gagtgacaat	atttccttat	agtgcattt	tccttgactg	120
gctccatgca	gaataggagg	atatagaata	ggaggagaag	gtttctgctg	tggcacctgg	180
agtggtactt	ggtgcacgcc	aggtgctaga	caatgtgtgt	gacaaggatg	cacgtgaaat	240
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ctttctgcat	cagtcttcat	gctgggcggc	atgaagagag	aaacaaaaac	cacctttctt	360
gccagggtct	tagtaccatt	tgtgtctctt	atctttcaag	taagggagaa	catctaagaa	420
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ttattaacac	aaagttcttg	gcctggtagg	gggcatgtac	gtggccaccg	tcctgggtgct	720
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ctagcacttt	gggaggctga	ggcagggtga	tcacgaggtc	aggagattga	gaccatcttg	840
gctaacacgg	tgaaacaccg	tctctactaa	aaatacaaaa	aaaaatttag	ctgggcgtgg	900
tggcatgcgc	ctgtagtccc	atctactcgn	a			931

&lt;210&gt; 89

&lt;211&gt; 588

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 89

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tcaaattgagc	tatgcatgtc	aaaagtttaa	aaataaaaaa	gataaaaaa	tgacacaaat	360
ttaaaaagta	aaccatttca	agctggacag	actaaaactg	agagatggcc	agagaagagt	420
atgaaagata	aatctatgga	cagagtaaac	cctgactggc	ttgaaattag	ggcccttact	480
cctccacact	cctgacgggt	tggttcaaga	ccargaawta	gaagcmcmmt	gtgagttcta	540
cgstgctgcc	ctgggaaaca	cacaggctaa	acacaccac	aggctcga		588

&lt;210&gt; 90

&lt;211&gt; 812

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (443)..(443)

&lt;223&gt; n equals a,t,g, or c



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tgccctttggt	gttttaatgt	ctcccaaagt	acccttcagc	caataaatac	catctgttgg	1860
tgcaaaaaaaa	aaaaaaaaaa	aa				1882

&lt;210&gt; 92

&lt;211&gt; 1391

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 92

ggtaaatacc	aaggtaatta	aattttttaag	ttctgagtat	tagaggtaat	ggttactgta	60
gctcctaaaa	tgacatcac	atctctggta	gggtgctggaa	ccctcatggt	actgctgctt	120
ttaattttgc	ttttggaatg	tttctttgta	gctgaagctt	tagtgatgag	aagttagaaa	180
tactctcatt	gacctttagt	gttttgtcct	gttgatataat	atcaagttcg	cttagtttga	240
cattgtttga	acttatttcc	ctaagcaaaa	aacagccaga	aagaagaaaa	tccagaacat	300
gtagaaattc	agaagatgat	ggattccctc	ttcttaaaaat	tggatgccct	ctcaaacttc	360
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aaaaaactcg	a					1391

&lt;210&gt; 93

&lt;211&gt; 930

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 93

gaattcggca	cgagctaagt	cctgatatacc	catgatgttt	tttgttttac	tttgtttttg	60
gctattttcct	ttttctaaaa	atagccctct	ctgggggaatg	ctgagatctt	cattctttat	120
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ttctatcctg	gcacccatgg	tgactaaaaa	aatcaaagac	gttaaactct	tgaaagcagc	240
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gcttgcatgtg	agctgaaatc	gtaccacagc	actccagcct	gggcaacaga	gtgagactcc	900
atatccaaaa	aaaaaaaaaa	aaaaactcga				930

&lt;210&gt; 94

&lt;211&gt; 998

&lt;212&gt; DNA



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agttaattca	agtctgaatc	ccagaaaactc	tcttgaaatc	aagccacagt	tcagccctat	660
tcttcctagt	ttttcctgac	atacttttgc	ttactctata	aatccacgga	tattcttctt	720
gcctactccc	accaaagccc	aaatacacgt	gaaaaaagtt	aatcatgaag	tttttcttat	780
tcccttacat	ttagaaaatc	agcatctact	ctcatagact	acttgtaaga	agacaaattt	840
ctgctactcc	ggacgcgtgg	gtcgacc				867

<210> 97

<211> 545

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (7)..(7)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (16)..(16)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (41)..(42)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (87)..(87)

<223> n equals a,t,g, or c

<400> 97

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tatgaacatc	attaactaga	atattattct	tgttttactt	ctgatgtgaa	ayttatataa	420
atacaacatg	ctatgaattt	gttttccmaa	aaaccaatca	acaatttawt	aagcatggka	480
acaaaaaacc	tgaaggcttt	atctttttaga	gtagtagttt	ttaaaaaaa	aaaaaaaaac	540
tcgta						545

<210> 98

<211> 722

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (251)..(251)

<223> n equals a,t,g, or c

<400> 98

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tcagaattct	ggtttctcaa	tgacataaact	gaagtaattt	cttccattct	acttttctct	180
gccccaggct	tgagatagaa	ctagggagcc	cagtggaggc	ttttctttcc	taaattaaca	240
ggcatctgtg	ncataaatgc	tacctttgaa	ctatgtgatt	taagataatg	tgacagaagta	300



cttctctggt	ctttcaggtt	gcytgcataa	ctawgtactt	ggttgaactt	gtaattcttg	360
ctgacaacag	tcctgctggt	ttccagtaag	gttcgtgatc	ctcggggcaa	ttttgatcag	420
tccctacgtg	tactgaaaca	tgccaagaag	gttcagcctg	atgttatctt	taaaacatct	480
ataatgttgg	gttttaggca	gaatgatgag	caagtatatg	caacaatgaa	aggtaaagaa	540
attgaaaaat	gaaaaatctt	tcccatgtaa	tttgagtaat	agccaggaac	ccactcactt	600
tgaaggccct	tctaagaaca	aagaaaagta	tatgggttata	gatggcagca	tgaaaaggaa	660
accaacttgc	acatgcaccc	tcaaatctaa	aatacaagtt	aaaaaaaaaa	aaaaaaactc	720
ga						722

<210> 99  
 <211> 753  
 <212> DNA  
 <213> Homo sapiens

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cttccgagtc	aatatgtgac	atgccatccc	acctttttgt	gttaccacat	tattataaca	720
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<210> 100  
 <211> 696  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (605)..(605)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (648)..(648)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (655)..(655)  
 <223> n equals a,t,g, or c

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kaggntccaa	gcttacgtac	gcgtgcatgc	gacgtcatag	ctcttctnta	agggncacct	660

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696

<210> 101

<211> 455

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (431)..(432)

<223> n equals a,t,g, or c

<400> 101

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<210> 102

<211> 389

<212> DNA

<213> Homo sapiens

<400> 102

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gtattacaaa	acaccaatac	cctgttaatt	gtttctgcct	ttcttctttc	catgctgttt	240
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<210> 103

<211> 960

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (460)..(460)

<223> n equals a,t,g, or c

<400> 103

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ttttttgtttt	atatttaatt	ataaaccaaa	atacatttgc	atttttaagc	taatttgtct	420
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<210> 104  
 <211> 1442  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1377)..(1377)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1419)..(1419)  
 <223> n equals a,t,g, or c

<400> 104						
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gagaaacaat	ttgaatttta	gaaggaaatt	gccttaccat	ttgcaaatta	aggtaattaa	240
aatacagtga	atttcaaaat	gcctttttta	tgacaatgtg	tgaacttaat	ttgttttaaat	300
aaaccaaaat	trttgttatt	gtgttaaggc	tattttacat	tgaatgtgta	tcttgccact	360
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gg						1442

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 <211> 598  
 <212> DNA  
 <213> Homo sapiens

<400> 105						
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<210> 106  
 <211> 685  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (7)..(7)  
 <223> n equals a,t,g, or c

<400> 106  
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 aacttgaact tggccctgcg cagggcctca atcacatgct ccttggttctg cagcttggtg 360  
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<210> 107  
 <211> 505  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (12)..(12)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (501)..(501)  
 <223> n equals a,t,g, or c

<400> 107  
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 aaaaaaaaaa aaaaactcga ngggg 505

<210> 108  
 <211> 1149  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (837)..(837)  
 <223> n equals a,t,g, or c

<400> 108  
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 agggcgggcc 1149

<210> 109  
 <211> 685  
 <212> DNA  
 <213> Homo sapiens

<400> 109  
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<210> 110  
 <211> 1146  
 <212> DNA  
 <213> Homo sapiens

<400> 110  
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&lt;210&gt; 112

&lt;211&gt; 1140

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 112

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&lt;210&gt; 113

&lt;211&gt; 1575

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 113

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cacagcccag	acccactccc	tgctccagca	ccagcccctc	cagctgacca	ccctgttgga	720
ccagtacatc	agagagcaac	gcgagaagga	ttctgtcatg	tcggccaatg	ggaagccaga	780
tcctgacact	gttccggact	cgtagccagc	ctgttttagcc	agccctgcgc	ataaatacac	840
tctgcgttat	tggctgtgct	ctcctcaatg	ggacatgtgg	aagaacttgg	ggtcggggag	900
tgtgtttgtc	acttggtttt	cactagtaat	gatattgtca	ggtatagggc	cacttggaga	960
tgcagaggat	tccatttcag	atgtcagtc	ccggcttcgt	ccttagtttt	cccaacttgg	1020
gacgtgatag	gagcaaagtc	tctccattct	ccaggtccaa	ggcagagatc	ctgaaaagat	1080
agggctattg	tccccctgct	ccttgggtcac	tgccctctgc	tgcacgggct	cctgagccca	1140
cccccttggg	gcacaacctg	ccactgccac	agtagctcaa	ccaagcagtt	gtgctgagaa	1200
tggcacctgg	tgagagcctg	ctgtgtgcca	ggctttgtgc	tgagtgtgtg	acatgtatta	1260
gttccttttac	tgctgaccac	attgtaccca	tttcacagag	aaggagcaga	gaaattaaagt	1320
ggcttgctca	aggtcatgca	gttagtaagt	ggcagaacag	ggacttgaac	caagccctct	1380

gctctgaaga	ccgcgtcctg	aattttcttca	ctagagcttc	ctcatcaggt	tacccagaag	1440
tgggtcccat	ccaccatcca	ggtgtgcttg	gatgttagtt	ctccaccctc	gaggtgtacg	1500
ctgtgaaaag	tttgggagca	ctgctttata	ataaaatgaa	atatattcta	maaaaaaaaa	1560
aaaaaaaaaa	ykcga					1575

<210> 114  
 <211> 334  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (321)..(321)  
 <223> n equals a,t,g, or c

<400> 114						
agaaaaatgaa	caaactagtg	agaaacattg	taaacatata	gtgtagatga	taactctgaa	60
cttaagtaca	agataatgat	gaatattctg	ctgcttaagt	atatcttaga	aatattaatt	120
cttagtgaaa	atcttaacct	attcaacatc	acttatggta	agtataactt	atttttccta	180
tacaggtatt	aaatatataa	tttatatgcc	agtcacattt	cctcacacta	aataaggcag	240
cagacacata	tattttaatat	catgggtatg	catttttaggt	tctaaaacct	aagggtatgtg	300
gatttcttaa	agccatatct	naaatatttt	cacc			334

<210> 115  
 <211> 866  
 <212> DNA  
 <213> Homo sapiens

<400> 115						
tttttagttca	ttattctctt	ctattaagag	aaattcactg	ttaaaaaatt	gtttccatt	60
tccgtatctg	aaataatgac	tgtagttgag	gtgatcttgc	cctgggtctg	aaatcatact	120
tccaaaccaa	aaaggacttt	gaatacaaaa	cttttaagaa	atcttgtagt	aatacaagct	180
atatctgaaa	aattgtgttt	tataatattg	atgcctagtt	ttgccccagg	ccatctgcag	240
tgtggttact	atgcaaagaa	tgctgggtgt	gctgtttttt	tttttttctt	tgttggtctat	300
taaccacagcg	gagacaatat	gtggctatgg	tagtacttgg	aagttctagc	attacacaga	360
ctagcttcca	tttctctcat	agaggtcatt	ttggcattta	aaacacatac	ttttagaaaa	420
cagatttgga	tgtatgtaaa	cacagggtta	atccaccaca	ctctggatgc	tagagctggt	480
gacaaagtca	tgctttgcag	attttaaaat	aaactttttg	ttactcttac	agcttggtat	540
tttcccctcc	tatttttttt	acctcctcta	aataaacctc	tttgttaaat	aattgatggt	600
tctggatcat	agaaaatagt	aagtttaaaa	tacagaatat	ttccaagcta	actacaaatc	660
tgatgacagt	tttttgagt	tgcacttttc	cttttatctt	ttaggtcctt	tttgggtcctt	720
tgcaaacata	gtaagattcc	atatttgtgt	cccaactgtg	gtaatatgtc	tgacttctta	780
ctggaaaaca	gtcagctcta	ggtagcattt	cttctgtgtg	gtattttaagt	taaattatta	840
ccaaaaaaaa	aaaaaaaaag	gcggcc				866

<210> 116  
 <211> 462  
 <212> DNA  
 <213> Homo sapiens

<400> 116						
gaattcggca	cgagctgggc	tcaagtgatc	ctcctgccga	ggcctcccaa	attgctggga	60
ctgcagctgt	gagccaccat	gcccagcctt	aacttggttt	taagacctct	gatttgcctt	120
gcctcaatta	cctcctttct	tattttcttt	cctttgttga	ctctcatact	ctgttctcct	180
aattctcccc	cttttccact	ccctgcccac	cctgaaagac	acacacacac	acaataagtg	240
ggtggagtta	gaagtcaacg	gagttggata	taagcattcc	tgcttttctg	acatctccag	300
tgtcttgagg	aacaaggatt	ctagaatgag	ggctcctcat	tatgcttcct	ttcaacattt	360
tttctctgtg	ttacttaagc	tttcacccca	agcatgtttg	acagagagcc	agtgcatctc	420
ccttactttt	tacaaaaata	aaaaaaaaaa	aaaaaaactc	ga		462

<210> 117



<211> 1500  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (71)..(71)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (73)..(73)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (755)..(755)  
 <223> n equals a,t,g, or c

<400> 117  
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 acgccaatgg nangcakcgt ggacgaggag gcrctcacca gctgtacctg tgggtagaca 120  
 acatccctct gtcccgcccc aagcgaaacc tctcccgga ctttagcgat ggagtccttg 180  
 ttgcagaggt catcaagttt tacttcccca agatggtgga gatgcacaat tatgtcggca 240  
 cgagctctct ccagcagaag ctacgcaact ggggtcatct gaacaggaag gtactgaaga 300  
 ggctgaactt ttcagtaccg gatgacgtga tgcgcaagat cgcgcagtgc gccccaggcg 360  
 tgggtggagct ggtgctcatc ccgctgaggc agcgcctgga ggagaggcag aggcgcagga 420  
 agcaggggcg cggtcctta caggagctgg ctcccagga tggcagtggc tacatggatg 480  
 tgggtgtatc ccagaaggcc cgaggtgaar gtgtcccga ccccaggga gggggtcagc 540  
 tcagctggga ccggccgccc gcgcctcggc ctccagcgta taaccgggcg ttgcagggcg 600  
 accccagctt cgtcctccag atcgctgaaa aggagcagga gctgttggcc tctcaagaga 660  
 ccgtgcaggt cctgcagatg aaggtaaggc gcctggagca cctgctccag ctcaagaatg 720  
 tgcggatcga aaacctctcc cggcggtccc agcangcgga rcgtaagcag cggtgagcgg 780  
 cggcccggggc cgcgcgggga cgcccgggta cccgccagag ccccgacgcc gcgccggacc 840  
 caccacccga tggatagacc attgggaggg cgagccccgc tgctctcacg agcctgctgg 900  
 ggcccagagt ccctccttcc ttgggatggg tgagcgtgga ggagatggga caggaaactct 960  
 aggagcgcag gcccgggact gagccgcctc ctaccactcc ggagatccgg gtcaggagaa 1020  
 tggaccgctt tccagagccc agaagccacg tgcagagacc tagcctgtcc cccaaagcag 1080  
 tgtccaacac cttgggcccc gccttgcatc tcccggcgct gggccttggg gggcggtccc 1140  
 ttggctctgt ccacaccccc agaatcaggt ccccgcccag ctccgaggac ggcggcgtct 1200  
 ccattccaggc tagttcccca tgccctcagc catgggggaa tctgtcccgg gccgtgagg 1260  
 ggctcccctg cccctcctgg gagcttacct gggaccacc tcggcgacgg agaccgcagc 1320  
 agctggagag gaaggggtga ggcgtgggat cgccaggagt agggaggaca tcgacgatgt 1380  
 gcccgtagca gtcgcccctc cctcctcgcg cacggggtac tgaggcgga ggtttgaagg 1440  
 ttacggctca gggctgcccc attaaagtca gtgttgtgtt ctaaaaaaaaa aaaaaaaaaa 1500

<210> 118  
 <211> 360  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (340)..(340)  
 <223> n equals a,t,g, or c

<400> 118  
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 cattcaaaaat cctctcttct agctattgga aaatacacac taaattactg ttaactatag 120  
 tccccctgca gtgctgcgga atgccacaac ttatccctcc tctccagctg tagtttagta 180  
 tccagtaaca tactcttttc atttcctttc tttgggcaga aggctagatg ttgcctgttt 240

ttgtttttatt	tttctgcttc	acatatagcg	cacgaaagca	gagtgtattc	aaaaaaggaa	300
atgtgtttga	aaaaaaaaaa	aaaaaaactc	gaggggggggn	ccggtaccca	attcgcccta	360

<210> 119  
 <211> 823  
 <212> DNA  
 <213> Homo sapiens

<400> 119						
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gaattattag	gagtaattct	tttctgtttc	tgttttataat	gtagctacag	tgttcttcat	120
tttcagaagt	taacatcaag	ccatcaaacc	tgggtatagt	gcagaaaacg	tggcacacac	180
tgaccacaca	ttaggctgtg	tcaccattgt	gtgggtgtacc	tgctggaaga	attctagcat	240
gctacttggg	gacataattt	cagtgggaaa	tatgccactg	accgattttt	tttttttcct	300
ctttgcagtg	gggctaggac	agttgattca	acaaagtatt	tttttctttt	ttctcagtc	360
taatttgaac	aggtcaaaga	tgtgttcagg	cattccaggt	aacaggtgtg	tatgtaaagt	420
taaaaatagg	cttttttagga	actcactcct	tagatattta	catccagctt	ctcatgttaa	480
atatttgtcc	ttaaagggtt	tgagatgtac	atctttcatt	tcgtatttct	cataggctat	540
gccatgtgcg	gaattcaagt	taccaatgta	acactggcca	gcgggcccag	caatctccat	600
gtgtacttat	tacagcttta	tttaaccagg	ggtcctaacc	actaacattg	tgactttgct	660
ttgagacctt	tcctctcctg	ggtactgagg	tgctatgaag	ccaactgaca	aagatgcac	720
acgtgtctta	ggctgatgcc	actaccgat	ttgtttattt	gcaatttgag	ccatttaaag	780
accaataaac	ttcctttttt	aaaaaaaaaa	aaaaaaaaact	cga		823

<210> 120  
 <211> 456  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (456)..(456)  
 <223> n equals a,t,g, or c

<400> 120						
gaattcggca	tgagctttct	ttctcctgca	ggcattggaa	atacagtc	agctggcaac	60
accagccagc	agcacagccc	ggaatcctgc	tcctgacctg	caccatcccc	accagccac	120
gatagaacgt	ttttgtaggc	attcctcctc	atgggagagg	atagagtaca	tgcgagtttt	180
tgctctcctc	ccaccctttc	acaagagcac	tgtgtctttc	tttcttctct	ttttcctttc	240
tttttttttt	tttaggcagg	gtcttgctgt	gtcascagg	ctggaatgca	gtgggtgcaat	300
catagctcac	tgcagccttg	acctcctgga	ctcaagcaat	cctcctgcct	taacctccca	360
gctactcagg	agaccgagac	aggaggacca	cttgagccca	ggaggttgag	gctgcagtga	420
gccgagattg	caccactgsa	mtccagcctg	gggaan			456

<210> 121  
 <211> 553  
 <212> DNA  
 <213> Homo sapiens

<400> 121						
gaattcggca	cgagtcctta	aacagttaaa	atgtcacagc	tgtttcttat	aatgcttaca	60
ttcatatttc	taaataacat	gtttataatg	catctaactt	ccttccatgg	aaaaagagta	120
tttggtttt	taaaccaatc	gagtcacatg	catgctttcc	cccttcacag	ttggactaca	180
tcaatatatta	gtgttagtat	ttttataaat	agataaaat	tgttcgcaaa	ttttatttgc	240
tgtctattgc	tgtgtaacaa	attcctccaa	aattattggc	tttaaacaac	atttattatc	300
ccatagtttc	tatgagttga	gaatctaagc	aggcttagct	gggtccacta	gctcgggggc	360
tctcacaagg	ccacagatca	aggtgttggt	cagtggtttg	tgcccttagt	cccagctact	420
tgggaggctg	aggcaggagg	atcacttgaa	cccagtagtt	caaggctgca	gtgagcwakg	480
gttacaccac	tgcactccar	cctgggtgac	agagcaagat	gccatctctt	aaaaaaaaaa	540
aaaaaaaaact	cga					553

<210> 122  
 <211> 1158  
 <212> DNA  
 <213> Homo sapiens

<400> 122  
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 tcttgaggaa agctttgggg tagtgagag gtaagggggg catggtcagt ctgaactcaa 120  
 caatagggct gaatgaattt accaaaggaa gctgccttat attatatgcc aggctgctgg 180  
 ggaaagcctc aggtcctggc cagccccgt tctcacaaga acatgcaggt taccacataa 240  
 ataatggcat atgccttcca taggacgtca acctgactta aatctaccta taccctactc 300  
 tctattctttt ggttttttgg tctcatccct gtggaaggaa atgggcctct tctggcatct 360  
 catgctactc tgtgcttttc cttgggctcc aaattctagc tcataaagat gcaagttttg 420  
 caatttccta taaatgggta agaaaagagc aagctgtcca gagagtgaga agtttgaaaa 480  
 gagagggtgca taagagagaa atgatgtcca tttgagcccc accacggagg ttatgtgggc 540  
 ccaaaaggaa tgatggccaa gcaattaatt tttcctccta gttcttagct tgcttctgca 600  
 ttgattggct ttacacaact ggcatttagt ctgcattaca caaatagaca ctaatttatt 660  
 tggaacaagc agcaaaatga gaactttatt tgggtgcagtc agggctccat ttagttccct 720  
 cactctgctt ctaatcacc cttctcccag cctctctcta tttgatagag gtctgtccct 780  
 cagatcagca atgtcttagc cctctcctc tcttccattc cttcctgttg gtactcattt 840  
 cttctaactt ttaataaaca tttaggtata atacattaca gtaagtgcta tttagataca 900  
 aacttaaaac atactatata ttttaaggat ctaagaatcc tttagagaag gcacatgact 960  
 gaagtacctc agctgcgcag cctgtagcca gtttttttaa tgtaaaagta agaatgccag 1020  
 ccttaaccta gccctgcaga taaaagctaa cttttattaa taccagccct gaataatggc 1080  
 actaatccac actcttcctt agagtgatgc tggaaaaata aaatcagggg cttcaggatt 1140  
 aaaaaaaaaa aaaaaaaa 1158

<210> 123  
 <211> 554  
 <212> DNA  
 <213> Homo sapiens

<400> 123  
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 gtagctggga ttacaggcgt gcaccaccac acgttgctat tttttgtact ttaagtagag 120  
 acggagtttt gccacattgg ccaggctggt ctcaaactcc tgacctcaag tgatccaccc 180  
 accttggcct cccaagggtc tgggattaca ggcattgagc actgtgcctg gctccattta 240  
 caactatttc tatcattata atgcaggggc tctcaaact gagcatgcct cagaatcccc 300  
 cagagggctg tgcgcacaga ctgctggacc tttccccagc ttctgattcc gtccctccag 360  
 agtggggctc gaagattgcc tttgaggtga rgctgcgggt cgggggcacg tctgagaact 420  
 gctgcagagg tgartgctgt ggctctgtct gcattcccc tggaagactg argcaccagg 480  
 tgtgctggtg ctaacagacc acaagtccct cctggacact gcccttctct gaaggagct 540  
 gcctcctcac tcga 554

<210> 124  
 <211> 1255  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (541)..(542)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1156)..(1156)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature

<222> (1162)..(1162)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1223)..(1223)  
 <223> n equals a,t,g, or c

<400> 124  
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 tcttgagaat gaaatattatc atgcttttac ttcttccttc aatcttccca actactgttg 120  
 aaatgatctg agattttaga tctacattat tgttactttt taacattatg tatcttctgt 180  
 ttcaagaagg cttttgatgt ttgagttaag tttcataagc ttttaaacaa gcatttagac 240  
 atttacacct gcttaactga tttcattgat cactttttatt tcatttgcac tgtatatccc 300  
 cattatttca actcatttca cagttgtcct tgggtacttct ttttagtactt ttttaaggaa 360  
 cagatgggtg atacagtatt atatgttctt gccttcctga agataacttggt gttcaataga 420  
 gcgtaacatt tttttcccac agtgactttt ccctcagaat actaaagtca cagaaagtta 480  
 tcacatcaac ttaatgttgc ccaagagaag tccaaactct ttgcgcttct tttgtagggt 540  
 nntttgggtt atctccccc aatgatgttt atagattcct tattctttct tcttggaaca 600  
 aagaaatttc attgggatat gtttttaaaa atagactctt ttttattatt tttgcatggg 660  
 actagatgag acatttttagt gcatagatgc aagtcttttt tcaactctgg gaattttact 720  
 tctatggaat ttttttttct ttccttaata ttttttctact ctttttctta tcttttagaa 780  
 atttttatgt tgatcccta gatctgctct ctgttctgac tagtttttgc tcattatata 840  
 tttttatcct tttcccttag aatcagtact tcttgaaata aactgcttct atgattctga 900  
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 aacccatttc agttgtgctt cttgctgttt ggctgcctga ttcaatcagt ggcagaaaat 1020  
 catattaaat atatttagag tactcccttt aaaagratta cctctctttg aaattcagta 1080  
 aatttacatt gagrataatt gacaaatttg tatatacatt tgcaggcaat aatttttatg 1140  
 agctgatctg ccatgnttaa angttttcct ttgtaaacca tttgggtgtg gtatttttta 1200  
 aatttcctca gtatgatccc agngggcatt aactgtccaa aaaaaaaaaa aaaaa 1255

<210> 125  
 <211> 1977  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (664)..(664)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (716)..(716)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1319)..(1319)  
 <223> n equals a,t,g, or c

<400> 125  
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 ggtccccgct gtgtgtgccc ctcaggcggc caccagccct accaggtcct cccctcccg 120  
 caggctcttcg ccttgatcgt gttctcctgc atctatggtg agggctacag caatgcccac 180  
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 agctgggagg gtctcgccct ctctgggagg ggcagggagc agctcactcc tccagggcag 480  
 ttttaggaaa gggttttcag ctagtgtttt tccgtgcttg aatggcacca gccctgcctg 540

gggtagctag	aagctgagtg	gacctgcagc	acacccgagc	agatgggctt	tgcctctgcc	600
ccttttgtcc	cctaggtgtg	ctgctgtggc	ccaccctgcc	aaggcccag	tgtgggggac	660
tttngagggtg	gctcccggcc	cggtttccaa	gtcctcccct	ccatagtgtg	gaagcntccc	720
ccgggagggtc	cctgccctac	ctgcccgcgt	ccccctccag	agtccctggaa	agccccctccc	780
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tgttggtttc	tgttctctca	ccaaccagtg	ggcagtcacc	aaccggaaga	cgtgctgggtg	900
ggggccgact	ctgtgagggc	agccatcacc	ttcagcttct	tttccatctt	ctcctggcgc	960
tacaaggctg	gcgtggacga	cttcatccag	aattacgttg	acccactcc	ggacccccaac	1020
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cagaacgcgg	agaccaccga	gggctaccag	ccgccccctg	tgtactgagc	ggcgggttagc	1140
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gaactgccag	cccctctctt	tcacctgttc	catcctgtgc	agctgacaca	cagctaagga	1260
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tggtgctcat	ggcacttctc	ccttgctccc	acccctggca	gcagggaagg	ctttgcctga	1740
caacacccag	ctttatgtaa	atattctgca	gttggttact	aggaagcctg	gggagggcag	1800
gggtgcccc	tggctcccag	actctgtctg	tgccgagtgt	attataaaat	cgtgggggag	1860
atgcccggcc	tgggatgctg	tttgagagcg	gaataaatgt	tttctcattc	aaaaaaaaaa	1920
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaagggcggc	cgctcgcgat	ctagaac	1977

<210> 126  
 <211> 738  
 <212> DNA  
 <213> Homo sapiens

<400> 126						
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ctcttcacac	tggccttact	caaaatgcag	attccaggac	tcaggctatc	tactgcctt	180
cttacttaca	attcttatac	cagaacaccc	ttcctcctcc	cctcatctga	atcttacctg	240
gtttttgaaa	tttaagtcag	ggccttctta	ggaagatttc	cctgattcag	atccaagttg	300
aattatgata	accctccttt	ggctcccata	aaatcttata	acttcctaac	tgtgttttat	360
gaatagttgt	ctagttttagc	actatgtcag	gagctattga	cagcagggct	gggcacagtg	420
actcacagct	gtaatcctag	ccctttgaga	ggacaagggtg	ggaggactgt	ttgaggacac	480
ctcaagccca	tccagcctag	gcaacagaat	gagatcttgt	ctgtacaaaa	aaacaaaaga	540
ttaattgggc	gtggtgacgt	gcacctgtag	tcccaactac	ttgagaggct	gaggcaggag	600
gattgcttga	ccccaggaga	tcgaggctgc	agtgatccat	gatgggtgtca	ctgcactcca	660
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ttcattgctc	tacctcga					738

<210> 127  
 <211> 988  
 <212> DNA  
 <213> Homo sapiens

<400> 127						
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gacaacaaat	ccaccctggc	agaattatt	gctcaggggc	tcataaagca	caacgcagaa	180
agccgaattc	agaacatcca	ctttggggag	agactgaatg	cctcagcaca	agtggcccca	240
gggctgggtg	gctggcta	cagcggcagg	aaacaccagc	agcagcaaga	gagcagcatc	300
aacatcacca	acattcagct	ggactgtggg	gggatccaga	tatcattcca	taaggagtgg	360
ttctcgga	atatctcact	tgaatttgac	cttgaattga	gaccgtcctt	cgataacaac	420
atcataaaga	tgtgtgcaca	tatgagcatc	gttggtggag	tctggctgga	gaaagacgag	480
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gccatcctca	ctgaggctat	cccaccaaag	atgaatcagt	ttctctacaa	cctcaaagag	600

aatctgcaaa	aagttctccc	acacatggta	gaaagtcagc	ccctggcctg	atccttctct	660
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aactgttgaa	aagcctcata	gaacaggagg	ctgctcatga	accaaccac	catgaaacca	780
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tttaccacag	gctctgtgga	cataccatcc	tctcctacaa	taaactctag	ctctgaaggg	960
tgaaaaaaaa	aaaaaaaaaa	cggcacga				988

&lt;210&gt; 128

&lt;211&gt; 912

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (906)..(906)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 128

gaattcggca	cagagaaaca	tttcatcccc	agtaagattc	ctcatcgtca	ttcacagggtg	60
atctctgttc	ccaccctagc	cttggacaat	tctgcatcta	ctttgtagct	ctataaattt	120
gccttttctg	gacatttcat	gtaagtgcgt	cacacagtat	gtgttccttt	gtgactggct	180
gcttttgctt	agcatgacgt	tcttggggct	cgcaacgcag	cttgtgtctg	ttgttcattc	240
cttttgcagc	agaatcgtat	tctgttggtt	ggatgggcca	cctgtttggt	gtctgtttac	300
tctccagctg	gtggacattt	aggccgtttg	cactggcggg	tactgtgaat	catgtcgtcg	360
tgaacattgt	gtgtgtgtct	gcgtggactt	gtgtgtcctg	ttctctggga	aggagtgtcg	420
ggtagargg	tagttttttg	tttccctctg	agactctctg	gtttccacat	atggtagttt	480
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aagcgctttg	ctgacttgtg	atgttttaaa	atctagcatt	attttcaaat	gctgtgagag	840
cactgaagat	aaaggatttg	attccttttt	tcaggcatcc	aaggatgggt	catcatcaag	900
aatcanttta	at					912

&lt;210&gt; 129

&lt;211&gt; 569

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)..(1)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 129

ntaagggtgtt	gattctggat	cacgggatac	cattcctgtc	macaccccga	ccagggggcta	60
gaaaattttgt	ttgagatttt	tatatcatct	tgtcaaattg	cttcagttgt	aaatgtgaaa	120
aatgggctgg	ggaaaggagg	tggtgtccct	aattgtttta	cttgtaact	tgttcttgtg	180
cccctgggca	cttggccttt	gtctgctctc	agtgtcttcc	ctttgacatg	ggaaaggagt	240
tgtggccaaa	atccccatct	tcttgcaact	caacgtctgt	ggctcagggc	tggggtggca	300
gagggaggcc	ttcaccttat	atctgtgttg	ttatccaggg	ctccagactt	cctcctctgc	360
ctgccccact	gcaccctctc	ccccttatct	atctccttct	cggctcccca	gccagtcctt	420
ggcttcttgt	cccctcctgg	ggtcacccct	ccactctgac	tctgactatg	gcagcagaac	480
accaggcctg	gcccagtgga	tttcatgggtg	atcattaaaa	aagaaaaatc	gcaacaaaaa	540
aaaaaaaaaa	aaaaaaaaaa	aaaactcga				569

&lt;210&gt; 130

&lt;211&gt; 646

&lt;212&gt; DNA

<213> Homo sapiens

<400> 130

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tacagacttc	caagaggctg	attctggctt	caagatggag	ccttggagtt	ggtttttttt	180
tttttttttt	ttcttccctc	aaagaacctg	cggttgcgct	ttgtgtgttt	tgttttttgtt	240
ttccatttgg	gggccccatg	ggaaagagct	tctgaactct	ttccttttatg	aactcccact	300
gtgttcctat	aaaggccctt	ttctttctta	gtgttgtaag	ttacattttc	attatgcccc	360
atcacatctt	ctttactgta	aaaatattaa	aaagctgttt	ccaagtggga	cagctaataa	420
agctctaatt	attgcagaca	tatttttgag	atgtaaaaaa	aaaaatttaa	agttaaatga	480
taagtcttag	aggcgagtga	ggaataaaaat	ggatgtaaac	atttacatgg	gatgcattag	540
aattctgctg	tgtgtactgt	cttttgggtg	aaacaaatta	tgaacagtga	ctaataataa	600
aaagtcaata	cccaawraaa	aaaaaaaaaa	aaaaaaaaag	gcggcc		646

<210> 131

<211> 1183

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (266)..(266)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (426)..(426)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1170)..(1170)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1178)..(1178)

<223> n equals a,t,g, or c

<400> 131

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ctgtgctaaa	aagagaaagt	ccaaaagact	ctaaacaaaa	acctcgacgc	cgttgaggat	180
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atcttgtmcm	tctataggca	agaagtgttt	ccagatcctt	tggaaagggtg	ggcatggggc	420
aggtstnttg	agagtggcgt	ttgagcagag	cgacccccatt	tccgtgtgaa	ccataggcac	480
aaccaggaa	gtttccccc	ttgtaggagt	gtgggtattc	cagagcaaga	ctgtggccac	540
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ctttttcaaa	ctgtccatgg	gaaggctgaa	ttgagtgaat	ccccagaatg	aagatgagaa	1020
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caaagatgta	gctagcattt	tggaaaccat	atgggcaaaa	cccgggcaac	cagagggggg	1140
aacagggttaa	gggaccgttt	cccaggaaan	tccccaantt	ttt		1183

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<220>
<221> misc feature
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<222> (621)..(621)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (651)..(651)  
 <223> n equals a,t,g, or c

<400> 133  
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 aaggatttca ttaagatatt agagagtgtt caaggcaact ggaggcagaa cgargattct 120  
 ggaaaggggc cacagagaag ttgtctgcat tcaaaaagagc attctattaa agctacctta 180  
 atttggcgct tatttttctt aatcatgttt ctgacaatca tagtgtgtgg aatgggttgc 240  
 gctttaagyg caataagagc taactgccat caagagccat cagtatgtct tcaagctgca 300  
 tgcccagaaa gctggattgg ttttcaaaga aagtgtttct atttttctga tgacaccaag 360  
 aactggacat caagtcagag gttttgtgac tcacaagatg ctgatcttgc tcagggttgaa 420  
 agmttccagg aactgktaag aaaatagttc tggccagaat caaagattca gccctacaag 480  
 gatatgtttt cctgtgaaat tatctaagag aatttcctgt tgagatataa aggcccatct 540  
 gatcactgga ttgggctgas caragaacaa ggccaacccat ggaaatggat aaatgggtact 600  
 gaatggacaa gacagtaagt nctaaaaatc tggcagtaat atttgtattt naatttactt 660  
 tgcattaaat ctgaagtgtt ctctagttac atgc 694

<210> 134  
 <211> 1032  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (593)..(593)  
 <223> n equals a,t,g, or c

<400> 134  
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 tgctggtatc actgcagtgc ttgttgccagc tgtagaatyt ytgagctgcg tgcagtgtaa 180  
 ttcatgggaa aaatcctgtg tcaacagcat tgcctctgaa tgtccctcac atgccaacac 240  
 cagctgtatc agtcctcag ccagctcctc tctagagaca ccagtcagat tataccagaa 300  
 tatgttctgc tcagcggaga actgcagtga ggagacacac attacagcct tcaactgtcca 360  
 cgtgtctgct gaagaacact ttcattttgt aagccagtgc tgccaaggaa aggaatgcag 420  
 caacaccagc gatgccctgg accctcccc tgaagaacgt gtccagcaac gcagagtgcc 480  
 ctgcttggtta tgaatctaata ggaactttcc tgtcatggga agccctggaa atgctatgaa 540  
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 aaaaaaaaaa aa 1032

<210> 135  
 <211> 537  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (429)..(429)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (502)..(502)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (520)..(520)  
 <223> n equals a,t,g, or c

<400> 135  
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 acttatctcc acaatatgct accaattcac ctgcagtggg catgtgcttt caggagtttt 180  
 ttgcttggtg tagacagttc tatgttcgtc ttgtttcagc accctcgttt gaaggacaca 240  
 aagagctcta ggggtcataga accaactctc actaactgac acagatatca ggatccaacc 300  
 catgcccaca gtattacccc aagtctctaa ctagctgggtg taaccaataa tggaaagaaa 360  
 aaaagtaata ttctgttctt caacttcaac agagaataat agtgaaagaa tgggtgatatt 420  
 tttcctaana tggactaaca agtatcctga gttgggaggt gacttccaat agtaaacaat 480  
 aaaataactg agaaaatgga gngaggaggg aggggagagn gagagtgggc acagaag 537

<210> 136  
 <211> 917  
 <212> DNA  
 <213> Homo sapiens

<400> 136  
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 aggaattttg gaagcaaggt ctccagggtc ctgagggggc tagctgttgt taggaaaagg 840  
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 aaaaaaaaaa aaaaaaa 917

<210> 137  
 <211> 1384  
 <212> DNA  
 <213> Homo sapiens

<400> 137  
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 tcatgggggt cccccagagg caacctggcc tatcagggct gctcctcctc gtgtggggac 180  
 tggcctggcc cctgccttgt atgagcttgg agctgatccc ctacacacca cagataacag 240  
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<220>  
 <221> misc\_feature  
 <222> (415)..(415)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<220>  
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 <222> (1312)..(1312)  
 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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<220>  
 <221> misc\_feature  
 <222> (1540)..(1540)  
 <223> n equals a,t,g, or c

<400> 139  
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 aagatgatgg gggagtgtgt ggaagatggg tgcagaatag ggaaaggggg gattgaagga 600  
 agaacaagct ctagcttcac ctgcatgggt agagcccaca gtgttggtag ggacatgtta 660  
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gtccttctta	tgtctagtct	cagttcatto	agccaaagct	cattttttgtc	ctatccaaag	1140
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tcccagttat	ttttaaaata	aatgatgaat	aaaatgcctg	ccctgaaggg	ttctggagga	1260
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaact	cgtga			1294

<210> 142  
 <211> 680  
 <212> DNA  
 <213> Homo sapiens

<400> 142						
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ctcctgacct	cgtgatccac	ctgccttggg	ctcccaaagt	gctgggatta	caggcgtgag	120
cmaccacacc	cggccaatca	tattttttct	tgttactaat	tagaatcatg	attctcctgg	180
cattcttcat	tttgttatac	ctcacttccct	tttccttagc	aagatctttg	ccatagagta	240
tggaaaccag	gttccttgcc	agttaatctg	tattgtgctt	tgtcatgtat	tgttactaaa	300
cagctcaaga	tcaaggggaa	gaaatgtata	tgagggtcag	ttcatgttca	gttttttttt	360
tttcagcatt	gcaacattgc	cactcatcat	catgagtgtg	gccctgtgtc	aggtactgaa	420
ggtaatggaa	aaggtatata	aggttgatcc	ctgtactctt	gttgggaaact	tgagtgggtat	480
gaatagagaa	ggtgagttct	tggggacaga	ggctacagtt	tagcaagctt	tcctatgcgg	540
accttggtaa	tttctttaca	ttttatagac	caaagaacaa	tcttaacttg	cccttttttc	600
taaaggcatt	gtttaaaaac	tgtcatcaaa	tcattgcagt	ttatggcaaa	tggccttttt	660
ttaaaaaaaa	aaaaaaaaaa					680

<210> 143  
 <211> 1168  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1163)..(1163)  
 <223> n equals a,t,g, or c

<400> 143						
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agggagcaat	gaatggggag	tgtggatgca	aactacggcc	tccttggcac	tgtttcagat	180
gggggatttc	ccttctctag	gagaacctgt	gctggaaaaag	gtgtggcacc	cacactgaaa	240
tggggcaagc	tttctccagc	tttgtggggg	cccttggaaa	acatccactg	agatggaggc	300
agtcttcttc	ctcttcttcc	tcctgtctct	cttgacctgg	accagcaaga	tagcaccaat	360
ccttttctcc	tgatggcagt	atctgaatga	ctttcacagc	tgaaggccag	agaccagcct	420
acagctggga	ttcaggcttc	aaagcttttg	tgaggatgac	tccagaacca	ggcaggtagt	480
ccccctccag	gatgccatgg	cctaaagcat	ttcactcctc	agtcactagg	ctgtgaactc	540
attgtggctg	acacttttat	tcgctgctat	gttttttttagc	aatgcccggc	acacagacct	600

gcttactatg	cttttgctga	gtgagtgaag	ggataagtcc	ctttctgcct	ttttgatact	660
cacttttggtg	ccccttgagg	tcacagagac	ctggatttga	cttctggctc	tgccacacaa	720
gagcacggat	gctttgggtc	agttacttca	gctctgagag	gctcaattgc	ctcacctgtg	780
aaatgggtta	gtgattccag	gaatcttacc	aggcccatg	gacagcatgt	acataaagag	840
cctagccctt	ccctctcctc	cctctccagg	ggccaggcct	gactcccctg	aagccatttc	900
cttaccattt	tgatccctaa	gcctgttatc	agatcttctt	tctgatctac	caccatggct	960
caaactctgc	ccttcatacct	tgccctttctc	aaagacaaaa	acacccttcc	tctgctccac	1020
tcagagtgtg	gcggggaggc	ttatactgca	gtggttaaga	gcatatccct	ggaattggaa	1080
ggaacagggt	ctaagattat	gtagatatag	cacaaagcct	tgctcctgct	cgtgccgaat	1140
tcgatatcaa	gcttatcgat	acngtcga				1168

<210> 144  
 <211> 930  
 <212> DNA  
 <213> Homo sapiens

<400> 144						
tcgagttttt	ttttttttt	ttttggatat	ggagtctcac	tctgttgccc	aggctggagt	60
gctgtggtag	gatttcagct	caatgcaagc	tctgcctcct	gggtttaagc	aattctcctg	120
cctcagccctc	cccagtaggt	gggactacgg	gtgtgcaaca	caacatccgg	ctaatttttg	180
tatttttctg	agagacagg	tttcacatgt	tggccaggct	ggtcttaaac	tcctgacctc	240
agttgatcca	cctgcctggg	cctcccaaa	tgctgggatt	acaggcaaaa	gccactgtgc	300
ccagctgcat	tggtgctgtt	ttttattgtt	agttaagaga	gaccaaccat	tagaaaaatg	360
tttaaggcct	ttcaaaggaa	gaatcctatg	taggcagccc	cactacaggt	tactttctga	420
tgaatgtcca	ggactattac	aaaatccatg	attgtggaaa	ttctgtcaaa	agagatgaca	480
gagaaatctt	gcctttgggtc	acaatcctgt	ctgaccccaa	caaaagctaa	ggaaatccta	540
atcagggtgtg	actcatgata	aagaaaaaca	tgcatccaaa	ttttggttca	gaagtacaga	600
aagtgtgcaa	cttctgtcaa	gttaattaat	gtatttgctc	cataactccc	cgacatataa	660
ggtaagttgg	ttggagtatg	tggtttgaag	gctgctttca	aagatttaac	gtctttgatt	720
tttttagtca	ccatgggtgc	caggatagaa	taagatctgg	agactttcga	ataactgctt	780
acagatgtag	ataattataa	attgatacta	ataaagaatg	aagatctcag	cattccccag	840
agagggtctat	ttttagaaaa	aggaaatagc	caaaaacaaa	gtaaaacaaa	aaacatcatg	900
ggatatcagg	acttagctcg	tgccgaattc				930

<210> 145  
 <211> 830  
 <212> DNA  
 <213> Homo sapiens

<400> 145						
ggtcgaccca	cgcgtccgct	gaaaggaaaa	gcactgtttg	gagaatgatc	cacctttcaa	60
gattttactt	attgttgata	atgctccac	atgtcctctt	ttttacgggt	gatcttcatt	120
cctaatatca	aagtgatatt	tcttcctcca	ggcaccacct	ctttgatcca	cacaatggat	180
caaggagtta	tagcagcttt	taagttctac	tacctgagaa	gggaggactt	ttgcccagtc	240
ccatactgca	gtggaggaag	acactgagaa	gactctgatg	aaattctgaa	cagcatcaag	300
aaccttggtt	aggcttggt	tatgtcgcta	aggactgtag	gaatggcacc	tggaagaaga	360
cacgcaagag	gtttgtcaat	aacttcaaag	gatttgccaa	ggatgaggaa	gttgcaaaaa	420
tcaagaaggc	tgtggttgag	atggcaaaaca	actttaacct	gggtgtggat	gtggatgaca	480
ttgagtaatt	cctagagggg	gttcctgagg	aattgactaa	tgggttgctg	ttggaactgg	540
aataggagtg	catagctgaa	gaagaggtaa	agaaaaagaa	agtgcaggag	aagggaaaaa	600
agaactccca	agaatactca	cagtgatggg	tttagcagaa	gcttcttcag	actccaacaa	660
gctccttaag	aagtctgaaa	acatggaccc	caaaactgaa	aggttttcac	taatagagag	720
gaaagttcat	ggtgcattat	ctgcctacaa	gcaaaaaccag	gattcaaaaa	accctttgag	780
ctggagcttc	aaagcacaaa	aaaaaaaaaa	aaaaaaaaaa	aagggcggcc		830

<210> 146  
 <211> 865  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature  
 <222> (321)..(321)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (409)..(409)  
 <223> n equals a,t,g, or c

<400> 146  
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 tgtatttggg ctttgggtggg agtaggcaag aagaatatcc gtggatttat agagtaagca 180  
 aaagtatgtc aggaaaaact aggaagaata gggctgaact gtggcttgat ttcaggagag 240  
 tttctgggat tcagacttga attaaactgaa tgatgctgta atgtataagt gttggtatag 300  
 gtgattttat gcaaagaaga ntaaaccattg gcttactttt attatcgtat acggtatggg 360  
 tgactactgc tgctagttca aggtctkgat tttttaaaaa tgtgtttcnt gactgtggta 420  
 gctgggagcc ccaggataca gacttttggg taaataacat ctgctccact ctgccttccc 480  
 gtgtgggcct ctctaaccct gggccaagca gttgagctc tcctcggggg gcctggagtg 540  
 aggggtgata cagcttgggt aattcagcat ctgtacctaa aaacttactc aaagtaggct 600  
 tcattgtaaag aagtcagtggt ttcttgggaa caggggtgag tgaatggagg cgaaagggtg 660  
 ggccctccac aggtcagtcg ggccctcagg gtgggacaag agctgtaggg ctcttgggta 720  
 taaacctgtg tgggtggagac cagcaggtga gccaaactct tctttattat cagaacattt 780  
 cactaataag ggatctcaag ggtcatctgg catcagcact ttaaccaata aaaaaaaaaa 840  
 aaaaaaaaaa aaaaaaaggg cggcc 865

<210> 147  
 <211> 545  
 <212> DNA  
 <213> Homo sapiens

<400> 147  
 agccagggtt ctagtcattht aagatgyacc tgaataaaac aaagagcctt actctcctag 60  
 aacttggtgt tctacctggg gagactgtca gtaaaccatc cacaaaataa atacagcaga 120  
 tgctgttaga agatgatggg gctatgggtg gctgtggaaa atagagaaaag tagagggaag 180  
 tgagagggat tgcgtacact aggattgtga ctttacacag aagggtcagt ggtgccattt 240  
 tagcaaagat ctgagagagg taaaggaata agctttgcag aagtgtggga gacaaatggt 300  
 ccagggtacg gaaatgacca acgccaagac cctagggtgg caatgtgtct gcttkgagtt 360  
 ctagagaarg ggtatattat acatcgcttt ttgtgactca ctttttggca aacattatgc 420  
 tctaaaatga acctgtattt tggaatawat ckgtgggttca ttaattctca tctttgtaca 480  
 gtatttctatt atataaatac accatgattt atttagtcaa ttaaaaaaaaaa aaaaaaaaaa 540  
 ctgga 545

<210> 148  
 <211> 470  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (315)..(315)  
 <223> n equals a,t,g, or c

<400> 148  
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 gccagaggcc gcggaggggc gaagaccgag agtaactctc ccttccaccc caaccggat 120  
 cgccagccct cgagagctct gtgctccacg ccgaggatgc accgtctctg gattgggtccg 180  
 gccttcttcc taatgacatc gctcagcgctc tctggagccg tcatcccgcg gaatgggggc 240  
 ccaggggggtg tcagytccgg gccttgccctc ttgcagctac tctgtggtca ggccgggtcc 300  
 tccaccatca ggaanatccc atcctgagct ctgtctcctg cccctcctgc tgtgggatgc 360  
 tgagcacaga gccacagcc catctgcctc ttcacctccc tgaatccgtg tccatctgca 420



ataaacgaca gcctcggctg cctcgtgctg aaaaaaaaaa aaaaaaaaaa

470

<210> 149  
 <211> 1766  
 <212> DNA  
 <213> Homo sapiens

<400> 149  
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 cacgattttt ttccacatct gtctgtgaga cacagcgcaa tgctactgcc cttccagaaa 120  
 ctgtgctaaa aagagaaagt ccaaaagact ctaaacaata acctcgacgc cgttgaggat 180  
 gtgtttcatt ctggtggtct gttttgcaag cttgataaca gaatgtccgt gccattgtaa 240  
 atgtttaga gatgtgggccc gtggcccaac cgtcctatat gagatgtagc atggtacaga 300  
 acaaaactgct tacacaggtc tcaactagtta gaaacctgtg ggccatggag gtcagacatc 360  
 catcttgtcc atctataggc aagaagtgtt tccagatcct ttggaaaggt gggcatgggg 420  
 caggtgcttg gagagtggcg tttgagccag agcgacccca tttcccgtgt gaaccatagg 480  
 cacaacccag gaagtttccc cacttgtagg agtgtgggta ttccagagca agactgtggc 540  
 caccatcttc cctcttgggt gttttccgaa agtgacagtg ttggtcatcc catgaccact 600  
 gaagcttagt aaccagcgcc aaaaagtaga ttcatacaac tagagacccc agtccccctt 660  
 ctgcgcatct tctttctcaa gttgaccgtg gtgctgtttc tggaaaggcat ctgcaactcc 720  
 aagtccatgc agaactctgg aaggccaagt tcatcgacgc atgttcacca tatccagcc 780  
 tccaaatcta tctctctacc ttccaacgca tgacctgttg gggagcagag acttaacccc 840  
 caactcagag gaacccttcc tccagcgtct ttggcatggt ttctagggtg agagttccca 900  
 atttggatag aacggccacc atattggtta ctgaatctct ctcccttgtt tttattacgt 960  
 ttcctttttc aaactgtcca tgggaaggct gaattgagt actccccaga atgaagatga 1020  
 gaaggtgaat ataatcaatg ccaatgtaat gccagcgggg tgagatgccc gatggagrtt 1080  
 tcaaagatgt agctagcatt ttgaaacat atgggcaaaa cccggcaacc agaaggggac 1140  
 agataaggac cggtccagaa atcccaactc tcacaccag cccaggctgc agtctccaca 1200  
 ccaaacagtc aacaaaacac aaacctgaa ggaaaacctt ttccatacac ccaggctatg 1260  
 cattgaagag ttttccactg tatacatttt tatccagatg aaggatattt tatattttga 1320  
 caataggaaa cagtgaccat ttccagagta atcaaactct gaacaaatga aacatctttt 1380  
 agccaccacc accctgttgc aattaagaca accgtggggg aacacaccac tttttactgt 1440  
 tgaaaccaac acaacgttga aatccaggct tatacgcaga ctccgattcc ctagagaact 1500  
 aaatttggtt ttagtgtgac gggatttgat taagcactta gtatagtctt ttgaacacgg 1560  
 aaatcctgtt gtacttaaaag ctagcggacc cgtgaacaac tttgtcaggt tcacgtccta 1620  
 taacggttma aaracacaca cacacatata caaacctgtt ctatgagaga ttgatgaact 1680  
 ttgtttaaaa ttttaaaaaa aggaacacgt tctgtaaacg agtcgctaaa tacagaattg 1740  
 tataataaaa aaaaaaaaaa aaaawt 1766

<210> 150  
 <211> 1048  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (79)..(79)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (117)..(117)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (138)..(138)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature

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<220>
<221> SITE
<222> (95)
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (204)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 151

Met	Ala	Thr	Pro	Leu	Pro	Pro	Pro	Ser	Pro	Arg	His	Leu	Arg	Leu	Leu
1				5					10					15	

Arg	Leu	Leu	Leu	Ser	Gly	Leu	Val	Leu	Gly	Ala	Ala	Leu	Arg	Gly	Ala
			20					25					30		

Ala	Ala	Gly	His	Pro	Glu	Cys	Cys	Arg	Leu	Ser	Arg	Glu	Pro	Gly	Leu
		35					40					45			

Cys	Pro	Glu	Glu	Ala	Gly	Lys	Cys	Pro	Pro	Gly	Ala	His	Ala	Cys	Gly
	50					55					60				

Pro	Ala	Phe	Ser	Pro	Ser	Xaa	Arg	Asn	Ser	Lys	Gly	Leu	Phe	Cys	Xaa
65					70					75					80

Asp	Ala	Pro	Gly	Phe	Xaa	Arg	Gly	Pro	Gly	Pro	Thr	Xaa	Thr	Xaa	Asn
				85					90					95	

Glu	Ile	Asp	Ser	Trp	Pro	Lys	Gly	Ala	Cys	Pro	Glu	Arg	Asn	Leu	Asp
		100						105					110		

Ile	Asn	Ser	Ala	Leu	Thr	Gln	Gly	Arg	Thr	Ala	Val	Pro	Gly	Ala	Cys
		115					120					125			

His	Leu	Gly	Ile	Xaa	Gly	Thr	Gly	Ala	Gly	Ala	Gly	Ala	Gly	Leu	Pro
	130					135					140				

Phe	His	Ser	Arg	Asn	Pro	His	Ala	His	Ala	Pro	His	Xaa	Pro	Trp	Val
145					150					155					160

Thr	Pro	Val	Ser	Ser	Asp	Pro	Val	His	Met	Ser	Pro	Leu	Glu	Pro	Arg
				165					170					175	

Gly	Gly	Gln	Gly	Asp	Gly	Xaa	Ala	Leu	Val	Leu	Ile	Leu	Ala	Phe	Cys
			180					185					190		

Val	Ala	Gly	Ala	Ala	Ala	Leu	Ser	Val	Ala	Ser	Xaa	Cys	Trp	Cys	Arg
		195						200					205		

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<210> 153
<211> 175
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (142)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (149)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (155)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (158)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (160)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (163)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 153
Met Tyr Trp Ile Val Phe Ala Leu Tyr Thr Val Ile Glu Thr Val Ala
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Asp Gln Thr Val Ala Trp Phe Pro Leu Tyr Tyr Glu Leu Lys Ile Ala
          20             25             30
Phe Val Ile Trp Leu Leu Ser Pro Tyr Thr Lys Gly Ala Ser Leu Ile
 35             40             45

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Tyr Arg Lys Phe Leu His Pro Leu Leu Ser Ser Lys Glu Arg Glu Ile  
 50 55 60  
 Asp Asp Tyr Ile Val Gln Ala Lys Glu Arg Gly Tyr Glu Thr Met Val  
 65 70 75 80  
 Asn Phe Gly Arg Gln Gly Leu Asn Leu Ala Ala Thr Ala Ala Val Thr  
 85 90 95  
 Ala Ala Val Lys Ser Gln Gly Ala Ile Thr Glu Arg Leu Arg Ser Phe  
 100 105 110  
 Ser Met His Asp Leu Thr Thr Ile Gln Gly Asp Glu Pro Val Gly Gln  
 115 120 125  
 Arg Pro Tyr Gln Pro Leu Pro Glu Ala Lys Lys Lys Ser Xaa Gln Pro  
 130 135 140  
 Pro Val Asn Gln Xaa Val Met Glu Phe His Xaa Lys Thr Xaa Met Xaa  
 145 150 155 160  
 Lys Gln Xaa Lys Lys Gln Arg Gly His Ile Gln Ile Met Arg Cys  
 165 170 175

<210> 154  
 <211> 197  
 <212> PRT  
 <213> Homo sapiens

<400> 154  
 Met Cys Thr Gly Lys Cys Ala Arg Cys Val Gly Leu Ser Leu Ile Thr  
 1 5 10 15  
 Leu Cys Leu Val Cys Ile Val Ala Asn Ala Leu Leu Leu Val Pro Asn  
 20 25 30  
 Gly Glu Thr Ser Trp Thr Asn Thr Asn His Leu Ser Leu Gln Val Trp  
 35 40 45  
 Leu Met Gly Gly Phe Ile Gly Gly Gly Leu Met Val Leu Cys Pro Gly  
 50 55 60  
 Ile Ala Ala Val Arg Ala Gly Gly Lys Gly Cys Cys Gly Ala Gly Cys  
 65 70 75 80  
 Cys Gly Asn Arg Cys Arg Met Leu Arg Ser Val Phe Ser Ser Ala Phe  
 85 90 95  
 Gly Val Leu Gly Ala Ile Tyr Cys Leu Ser Val Ser Gly Ala Gly Leu  
 100 105 110  
 Arg Asn Gly Pro Arg Cys Leu Met Asn Gly Glu Trp Gly Tyr His Phe  
 115 120 125  
 Glu Asp Thr Ala Gly Ala Tyr Leu Leu Asn Arg Thr Leu Trp Asp Arg  
 130 135 140  
 Cys Glu Ala Pro Pro Arg Val Val Pro Trp Asn Val Thr Leu Phe Ser

0997322340001







Thr Arg Thr Tyr Tyr Thr Pro Thr Arg Met Lys Val Ser Lys Ser Cys  
50 55 60

Val Pro Arg Cys Phe Glu Thr Val Tyr Asp Gly Tyr Ser Lys His Ala  
65 70 75 80

Ser Thr Thr Ser Cys Cys Gln Tyr Asp Leu Cys Asn Gly Thr Gly Leu  
85 90 95

Ala Thr Pro Ala Thr Leu Ala Leu Ala Pro Ile Leu Leu Ala Thr Leu  
100 105 110

Trp Gly Leu Leu  
115

<210> 158

<211> 173

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 158

Met Gln Leu Ile Pro Leu Glu Gln Leu Cys Met Leu Leu Leu Met Ser  
1 5 10 15

Asp Asn Val Asp Arg Cys Phe Glu Thr Cys Pro Pro Arg Thr Phe Leu  
20 25 30

Pro Ala Leu Cys Lys Ile Phe Leu Asp Glu Ser Ala Pro Asp Asn Val  
35 40 45

Leu Glu Val Thr Ala Arg Ala Ile Thr Tyr Tyr Leu Asp Val Ser Ala  
50 55 60

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Glu Cys Thr Arg Arg Ile Val Gly Val Asp Gly Ala Ile Lys Ala Leu  
65 70 75 80  
Cys Asn Xaa Leu Val Val Val Glu Leu Asn Asn Arg Thr Ser Arg Asp  
85 90 95  
Leu Ala Glu Gln Cys Val Lys Val Leu Glu Leu Ile Cys Xaa Pro Glu  
100 105 110  
Ser Gly Xaa Val Phe Xaa Ala Gly Gly Leu Asn Arg Val Ala Tyr Leu  
115 120 125  
Pro Ser Val Asn Ser Gly His Leu Val His Lys Asp Thr Leu His Ser  
130 135 140  
Ala Met Ala Val Val Ser Arg Leu Cys Gly Lys Met Glu Pro Gln Asp  
145 150 155 160  
Ser Ser Leu Glu Ile Cys Val Xaa Ser Leu Ser Ser Leu  
165 170

<210> 159  
<211> 67  
<212> PRT  
<213> Homo sapiens

<400> 159  
Met Ile Phe Arg Asn Gly Val Arg Leu Val Phe Val Phe Val Leu Phe  
1 5 10 15  
Tyr Thr Ser Thr Gln Ser Leu Phe Asn Ser Leu Gln Thr Ala Glu Tyr  
20 25 30  
Val Leu Phe Cys Gln Gln Arg Leu Ser Leu Tyr Glu Pro Ser His Val  
35 40 45  
Leu Cys Leu Cys Met Ser Pro His Arg Lys His Thr Arg Glu Ser Asp  
50 55 60  
Thr Ser Gly  
65

<210> 160  
<211> 228  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (134)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 160  
Met Val Leu Gly Leu Phe Val Pro Pro Val Phe Val Val Ser Tyr Ala  
1 5 10 15  
Lys Asp Leu Gly Val Pro Asp Thr Lys Ala Ala Phe Leu Leu Thr Ile



<211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 162

Met	Lys	Leu	Met	Val	Leu	Val	Phe	Thr	Ile	Gly	Leu	Thr	Leu	Leu	Leu
1				5					10					15	
Gly	Val	Gln	Ala	Met	Pro	Ala	Asn	Arg	Leu	Ser	Cys	Tyr	Arg	Lys	Ile
			20					25					30		
Leu	Lys	Asp	His	Asn	Cys	His	Asn	Leu	Pro	Glu	Gly	Val	Ala	Asp	Leu
		35					40					45			
Thr	Gln	Ile	Asp	Val	Asn	Val	Gln	Asp	His	Phe	Trp	Asp	Gly	Lys	Gly
	50					55					60				
Cys	Glu	Met	Ile	Cys	Tyr	Cys	Asn	Phe	Ser	Glu	Leu	Leu	Cys	Cys	Pro
65					70					75					80
Lys	Asp	Val	Phe	Phe	Gly	Pro	Lys	Ile	Ser	Phe	Val	Ile	Pro	Cys	Asn
				85					90					95	

Asn Gln

<210> 163  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 163

Met	Tyr	His	Tyr	Ala	Trp	Leu	Ile	Phe	Val	Phe	Leu	Val	Glu	Met	Gly
1				5					10					15	
Phe	Cys	His	Val	Gly	Gln	Ala	Gly	Leu	Lys	Leu	Leu	Thr	Ser	Ser	Asp
			20					25					30		
Pro	Pro	Ala	Ser	Ala	Ser	Gln	Ser	Ala	Gly	Ile	Thr	Gly	Val	Ser	His
		35					40					45			
His	Ala	Trp	Gly	Lys	Arg	Tyr	Phe	Gln	Asn	Ile	Val	Asn	Asn	Phe	Ser
	50					55					60				
Pro	Lys	Pro	Arg	Gln	Gly	Leu	Ile	Leu	Leu	Pro	Arg	Leu	Glu	Trp	Gln
65				70						75					80

Gly His His Arg Ser Ser Leu Gln Pro

85

<210> 164  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<400> 164

Met Gly Gly Leu Glu Pro Cys Ser Arg Leu Leu Leu Leu Pro Leu Leu

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89

1	5	10	15
Leu Ala Val Gly	Leu Arg Pro Val	Gln Ala Gln Ala	Gln Ser Asp Cys
20		25	30
Ser Cys Ser Thr	Val Ser Pro Gly	Val Leu Ala Gly	Ile Val Met Gly
35		40	45
Asp Leu Val Leu	Thr Val Leu Ile	Ala Leu Ala Val	Tyr Phe Leu Gly
50		55	60
Arg Leu Val Pro	Arg Gly Arg Gly	Ala Ala Glu Ala	Thr Arg Lys Gln
65		70	75
Arg Ile Thr Glu	Thr Glu Ser Pro	Tyr Gln Glu Leu	Gln Gly Gln Arg
	85	90	95
Ser Asp Val Tyr	Ser Asp Leu Asn	Thr Gln Arg Pro	Tyr Tyr Lys
100		105	110

<210> 165  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

<400> 165
Met Ala Ser Leu Leu Gln Arg Asn Leu Cys Pro Arg Leu Ser Val Cys
1 5 10 15
Leu Val Phe Ile Gln Val Phe Val Cys Cys Val Glu Gly Gly Gly Arg
20 25 30
Arg Val Lys Ala Val Leu Phe Arg Ala Pro Phe Gly Glu His Ser Arg
35 40 45
Gln Asn Thr Leu Val Ile Pro Ser Gln Thr Gly Leu Gln Ala His
50 55 60

<210> 166  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (28)  
 <223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 166

Met Asn Pro Phe Ser Val Phe Xaa Ser Leu Cys Leu Lys Gln Phe Glu  
 1 5 10 15

Asp Val Xaa Leu Phe Leu Gly Leu Met Phe Gly Xaa Ser Leu Asn Gly  
 20 25 30

Gln Glu Gly Thr  
 35

&lt;210&gt; 167

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 167

Met Tyr Ile Phe Tyr Leu Tyr Lys Ile Tyr Ile Tyr Thr His Ile Cys  
 1 5 10 15

Ile Tyr Ile Pro Leu Phe Leu Cys Leu Leu Ile Leu Ala Ile Lys Glu  
 20 25 30

Gly Ala Ala Phe Asn Val  
 35

&lt;210&gt; 168

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 168

Met Asn Glu Ser Val Tyr Asp Asp Ser Thr Ser Ser Tyr Thr Pro Ser  
 1 5 10 15

Leu His Ile Leu Gly Cys Leu Leu Leu Leu Phe Leu Gly Val Glu Arg  
 20 25 30

Ala Leu Glu Pro Phe Ser Gly Leu Cys Ala Ser Leu His Asp Val Arg  
 35 40 45

Pro Ile Val Asn Pro Leu Thr Ser Phe Ser Leu Ile Tyr  
 50 55 60

&lt;210&gt; 169

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 169

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91

Met Ser Asp Lys Leu Ser Pro Ser Thr Val Pro Leu Leu Leu Pro Val  
 1 5 10 15  
 Leu Phe Lys Val Thr Ile Leu Leu Gln Arg Val Cys Pro Glu Asp Ser  
 20 25 30  
 Pro Ser Ser Ser Val Leu Pro Glu Ser Val Xaa Arg Glu  
 35 40 45

<210> 170  
 <211> 116  
 <212> PRT  
 <213> Homo sapiens

<400> 170  
 Met Thr His Lys Ser Leu Val Tyr Leu Trp Phe Leu Cys Ser Ser Val  
 1 5 10 15  
 Ala Leu Ala Leu Gly Ala Leu Thr Val Trp His Ala Val Leu Ile Ser  
 20 25 30  
 Arg Gly Glu Thr Ser Ile Glu Arg His Ile Asn Lys Lys Glu Arg Arg  
 35 40 45  
 Arg Leu Gln Ala Lys Gly Arg Val Phe Arg Asn Pro Tyr Asn Tyr Gly  
 50 55 60  
 Cys Leu Asp Asn Trp Lys Val Phe Leu Gly Val Asp Thr Gly Arg His  
 65 70 75 80  
 Trp Leu Thr Arg Val Leu Leu Pro Ser Ser His Leu Pro His Gly Asn  
 85 90 95  
 Gly Met Ser Trp Glu Pro Pro Pro Trp Val Thr Ala His Ser Ala Ser  
 100 105 110  
 Val Met Ala Val  
 115

<210> 171  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 171  
 Met Ser Val Leu Phe Val Ala Val Ser Leu Leu Ser Ser Ile Val Pro  
 1 5 10 15  
 Asp Ile Gln Tyr Arg Leu Lys Thr Tyr Leu His Ile Asp Leu Trp Lys  
 20 25 30  
 Thr Asp Thr Gln Val Leu Lys Asn Lys  
 35 40

<210> 172

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<211> 281  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (216)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (227)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (268)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 172  
 Met Gly Phe Pro Gln Arg Gln Pro Gly Leu Ser Gly Leu Leu Leu Leu  
   1                  5                  10                  15  
 Val Trp Ala Leu Ala Trp Pro Leu Pro Cys Met Ser Leu Glu Leu Ile  
           20                  25                  30  
 Pro Tyr Thr Pro Gln Ile Thr Ala Trp Asp Leu Glu Gly Lys Val Thr  
           35                  40                  45  
 Ala Thr Thr Phe Ser Leu Glu Gln Pro Arg Cys Val Leu Asp Gly Leu  
   50                  55                  60  
 Ala Gly Val Ala Ser Thr Ile Trp Leu Val Val Ala Phe Ser Asn Ala  
   65                  70                  75                  80  
 Ser Arg Asp Phe Gln Asn Pro Gln Thr Arg Ala Glu Ile Pro Ala Phe  
                   85                  90                  95  
 Pro Arg Leu Leu Thr Glu Gly His Tyr Met Thr Leu Pro Leu Ser Leu  
           100                  105                  110  
 Asp Gln Leu Pro Cys Gln Asp Pro Ala Gly Gly Gly Arg Asp Val Pro  
   115                  120                  125  
 Leu Leu Arg Val Gly Asn Asp Pro Gly Cys Leu Ala Asp Leu Leu Gln  
   130                  135                  140  
 Pro Pro Tyr Cys Asn Ser Pro Leu Pro Ser Pro Gly Pro Tyr Arg Val  
  145                  150                  155                  160  
 Lys Phe Leu Leu Met Asp Ala Arg Gly Ser Pro Gln Ala Glu Thr Arg  
           165                  170                  175  
 Trp Ser Asp Pro Ile Ala Leu His Gln Gly Lys Ser Pro Ala Ser Ile  
           180                  185                  190  
 Asp Thr Trp Pro Gly Arg Arg Ser Gly Gly Met Ile Val Ile Thr Ser  
   195                  200                  205  
 Ile Leu Ser Ser Leu Ala Ser Xaa Leu Leu Leu Ala Phe Leu Ala Ala  
  210                  215                  220

097338-10101



Ser Thr Xaa Arg Phe Ser Ser Leu Trp Trp Pro Glu Glu Ala Pro Glu  
 225 230 235 240  
 Gln Leu Arg Ile Gly Ser Phe Met Gly Lys Arg Tyr Met Thr His His  
 245 250 255  
 Ile Pro Pro Ser Glu Ala Ala Thr Leu Pro Val Xaa Cys Glu Pro Gly  
 260 265 270  
 Leu Asp Pro Leu Pro Ser Leu Ser Pro  
 275 280

<210> 173  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 173  
 Met Gly Tyr Leu Asn  
 1 5

<210> 174  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 174  
 Met Pro Phe Ala Trp Asn Asp Leu Thr Ser Leu Leu Phe Tyr Leu Ala  
 1 5 10 15

Gly Cys Phe Ser Ser Cys Arg Leu Gly Gln Gly Thr Pro Gly Ser Leu  
 20 25 30

Pro Trp Thr Ser Asn Glu Glu Gly Ile Ile Gln Gly Pro Thr Pro Met  
 35 40 45

Phe Trp Asn Leu Thr Pro Phe Ser Gly Thr  
 50 55

<210> 175  
 <211> 179  
 <212> PRT  
 <213> Homo sapiens

<400> 175  
 Met Leu Tyr Tyr Leu Trp Met Leu His Ser Val Thr Leu Phe Leu Asn  
 1 5 10 15

Leu Leu Ala Cys Leu Ala Trp Phe Ser Gly Asn Ser Ser Lys Gly Val  
 20 25 30

Asp Phe Gly Leu Ser Ile Leu Trp Phe Leu Ile Phe Thr Pro Cys Ala  
 35 40 45

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Phe Leu Cys Trp Tyr Arg Pro Ile Tyr Lys Ala Phe Arg Ser Asp Asn  
     50                    55                    60  
 Ser Phe Ser Phe Phe Val Phe Phe Phe Val Phe Phe Cys Gln Ile Gly  
     65                    70                    75                    80  
 Ile Tyr Ile Ile Gln Leu Val Gly Ile Pro Gly Leu Gly Asp Ser Gly  
                     85                    90                    95  
 Trp Ile Ala Ala Leu Ser Thr Leu Asp Asn His Ser Leu Ala Ile Ser  
                     100                    105                    110  
 Val Ile Met Met Val Val Ala Gly Phe Phe Thr Leu Cys Ala Val Leu  
                     115                    120                    125  
 Ser Val Phe Leu Leu Gln Arg Val His Ser Leu Tyr Arg Arg Thr Gly  
     130                    135                    140  
 Ala Ser Phe Gln Gln Ala Gln Glu Glu Phe Ser Gln Gly Ile Phe Ser  
     145                    150                    155                    160  
 Ser Arg Thr Phe His Arg Ala Ala Ser Ser Ala Ala Gln Gly Ala Phe  
                     165                    170                    175  
 Gln Gly Asn

<210> 176  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 176  
 Met Thr Ser His Pro Ser Trp Arg Leu Ile Leu Val Thr Ser Leu Val  
     1                    5                    10                    15  
 Leu Gly Val Glu Pro Glu Glu Ala Pro Gly Glu Ala Gly Glu Gly Ser  
                     20                    25                    30  
 Gly Gly Gln Arg Thr Met Asp Pro Glu Gln Lys Trp  
     35                    40

<210> 177  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 177  
 Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu  
     1                    5                    10                    15  
 Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys

95

20

25

30

Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu  
35 40 45

Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Asp Tyr Trp Glu Gln  
50 55 60

Leu Arg Cys Leu Xaa Glu Arg Phe Thr Ile Thr Ala Gly  
65 70 75

<210> 178

<211> 31

<212> PRT

<213> Homo sapiens

<400> 178

Met Ser Val Lys Val Gly Ser Leu Leu Val Leu Val Tyr Phe Thr Leu  
1 5 10 15

Gly Pro Val Val Ala Glu Leu Glu Val Thr Leu Pro Ser His Ser  
20 25 30

<210> 179

<211> 257

<212> PRT

<213> Homo sapiens

<400> 179

Met Ala Ala Leu Thr Thr Val Val Val Ala Ala Ala Ala Thr Ala Val  
1 5 10 15

Ala Gly Ala Val Ala Gly Ala Gly Ala Ala Thr Gly Thr Gly Val Gly  
20 25 30

Ala Thr Pro Ala Pro Gln Gln Ser Asp Gly Cys Phe Ser Thr Ser Gly  
35 40 45

Gly Ile Arg Pro Phe His Leu Gln Asn Trp Lys Gln Lys Val Asn Gln  
50 55 60

Thr Lys Lys Ala Glu Phe Val Arg Thr Ala Glu Lys Phe Lys Asn Gln  
65 70 75 80

Val Ile Asn Met Glu Lys Asp Lys His Ser His Phe Tyr Asn Gln Lys  
85 90 95

Ser Asp Phe Arg Phe Glu His Ser Met Leu Glu Glu Leu Glu Asn Lys  
100 105 110

Leu Ile His Ser Arg Lys Thr Glu Arg Ala Lys Phe Gln Gln Gln Leu  
115 120 125

Ala Lys Ile His Asn Asn Val Lys Lys Leu Gln His Gln Leu Lys Asp  
130 135 140

Val Lys Pro Thr Pro Asp Phe Val Glu Lys Leu Arg Glu Met Met Glu

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96  
145 150 155 160  
Glu Ile Glu Asn Ala Ile Asn Thr Phe Lys Glu Glu Gln Arg Leu Ile  
165 170 175  
Tyr Glu Glu Leu Ile Lys Glu Glu Lys Thr Thr Asn Asn Glu Leu Ser  
180 185 190  
Ala Ile Ser Arg Lys Ile Asp Thr Trp Ala Leu Gly Asn Ser Glu Thr  
195 200 205  
Glu Lys Ala Phe Arg Ala Ile Ser Ser Lys Val Pro Val Asp Lys Val  
210 215 220  
Thr Pro Ser Thr Leu Pro Glu Glu Val Leu Asp Phe Glu Lys Phe Leu  
225 230 235 240  
Gln Gln Thr Gly Gly Arg Gln Gly Ala Trp Asp Val Ile Thr Arg Thr  
245 250 255

Leu

<210> 180  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 180  
Met Ala Phe Leu Leu Thr Leu Val Pro Leu Leu Pro Ser Arg Cys Leu  
1 5 10 15

Gly Leu Glu Glu Met Ala Val Pro Asn Ser Thr Cys Ile Ser Pro Phe  
20 25 30

Ser Cys Cys Tyr Gly  
35

<210> 181  
<211> 344  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (126)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (128)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 181  
Met Glu Lys Ile Gly Ser Ser Leu Pro Gln Asp Asp Asp Ala Pro Lys  
1 5 10 15

Lys	Gln	Ala	Leu	Tyr	Leu	Met	Phe	Asp	Thr	Ser	Gln	Glu	Ser	Pro	Val
			20					25						30	
Lys	Ser	Ser	Pro	Val	Arg	Met	Ser	Glu	Ser	Pro	Thr	Pro	Cys	Ser	Gly
		35					40					45			
Ser	Ser	Phe	Glu	Glu	Thr	Glu	Ala	Leu	Val	Asn	Thr	Ala	Ala	Lys	Asn
	50					55					60				
Gln	His	Pro	Val	Pro	Arg	Gly	Leu	Ala	Pro	Asn	Gln	Glu	Ser	His	Leu
65					70					75					80
Gln	Val	Pro	Glu	Lys	Ser	Ser	Gln	Lys	Glu	Leu	Glu	Ala	Met	Gly	Leu
				85					90					95	
Gly	Thr	Pro	Ser	Glu	Ala	Ile	Glu	Ile	Arg	Glu	Ala	Ala	His	Pro	Thr
			100					105					110		
Asp	Val	Ser	Ile	Ser	Lys	Thr	Ala	Leu	Tyr	Ser	Arg	Ile	Xaa	Thr	Xaa
		115					120					125			
Glu	Val	Glu	Lys	Pro	Ala	Gly	Leu	Leu	Phe	Gln	Gln	Pro	Asp	Leu	Asp
130						135					140				
Ser	Ala	Leu	Gln	Ile	Ala	Arg	Ala	Glu	Ile	Ile	Thr	Lys	Glu	Arg	Glu
145				150						155					160
Val	Ser	Glu	Trp	Lys	Asp	Lys	Tyr	Glu	Glu	Ser	Arg	Arg	Glu	Val	Met
				165					170					175	
Glu	Met	Arg	Lys	Ile	Val	Ala	Glu	Tyr	Glu	Lys	Thr	Ile	Ala	Gln	Met
			180					185					190		
Ile	Glu	Asp	Glu	Gln	Arg	Glu	Lys	Ser	Val	Ser	His	Gln	Thr	Val	Gln
	195						200					205			
Gln	Leu	Val	Leu	Glu	Lys	Glu	Gln	Ala	Leu	Ala	Asp	Leu	Asn	Ser	Val
210						215					220				
Glu	Lys	Ser	Leu	Ala	Asp	Leu	Phe	Arg	Arg	Tyr	Glu	Lys	Met	Lys	Glu
225					230					235					240
Val	Leu	Glu	Gly	Phe	Arg	Lys	Asn	Glu	Glu	Val	Leu	Lys	Arg	Cys	Ala
				245					250					255	
Gln	Glu	Tyr	Leu	Ser	Arg	Val	Lys	Lys	Glu	Glu	Gln	Arg	Tyr	Gln	Ala
			260					265					270		
Leu	Lys	Val	His	Ala	Glu	Glu	Lys	Leu	Asp	Arg	Ala	Asn	Ala	Glu	Ile
	275						280					285			
Ala	Gln	Val	Arg	Gly	Lys	Ala	Gln	Gln	Glu	Gln	Ala	Ala	His	Gln	Ala
290						295					300				
Ser	Leu	Arg	Lys	Glu	Gln	Leu	Arg	Val	Asp	Ala	Leu	Glu	Arg	Thr	Leu
305					310					315					320
Glu	Gln	Lys	Asn	Lys	Glu	Ile	Glu	Glu	Leu	Thr	Lys	Ile	Cys	Asp	Glu
				325					330					335	
Leu	Ile	Ala	Lys	Met	Gly	Lys	Ser								

340

<210> 182  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 182  
 Met Met Leu Gly Leu Phe Ser Pro Leu Cys Leu Val Thr Gly Ile Ala  
   1                  5                  10                  15  
 Glu Gly Arg Ala Glu Asp Ala Ser Leu His Asp Ile Cys Thr Thr Gln  
                   20                  25                  30  
 His Thr Leu Thr Phe Thr Pro Ser Tyr Pro Val Gly Gly Ser  
           35                  40                  45

<210> 183  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 183  
 Met Gly Val Lys Leu Glu Ile Phe Arg Met Ile Ile Tyr Leu Thr Phe  
   1                  5                  10                  15  
 Pro Val Ala Met Phe Trp Val Ser Asn Gln Ala Glu Trp Phe Glu Asp  
                   20                  25                  30  
 Asp Val Ile Gln Arg Lys Arg Glu Leu Trp Pro Pro Glu Lys Leu Gln  
           35                  40                  45  
 Glu Ile Glu Glu Phe Lys Glu Arg Leu Arg Lys Arg Arg Glu Glu Lys  
   50                  55                  60  
 Leu Leu Arg Asp Ala Gln Gln Asn Ser  
   65                  70

<210> 184  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 184  
 Met Gln Leu Ser Lys Phe Leu Leu Phe Leu Phe Val Tyr Thr Arg Glu  
   1                  5                  10                  15  
 Asn Pro Thr Ser Ala Cys Val Trp Gly Glu Lys Ser Thr Val  
           20                  25                  30

<210> 185  
 <211> 31  
 <212> PRT

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<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 185

Met	Ile	His	Val	Leu	Thr	Phe	Leu	Leu	Gln	Xaa	Tyr	Ile	Leu	Ile	Ser
1				5					10					15	
Lys	Gly	Lys	Gly	Asp	Val	Ser	Gln	Phe	Val	Lys	Ser	Arg	Glu	Tyr	
			20					25					30		

<210> 186

<211> 76

<212> PRT

<213> Homo sapiens

<400> 186

Met	Phe	Phe	Leu	Leu	Ile	Leu	Cys	Trp	Leu	Leu	Cys	Leu	Ser	Leu	Ser
1				5					10					15	
Gly	Leu	Tyr	Pro	Arg	Leu	Leu	Asn	Pro	Gly	Gly	Trp	Leu	Ser	Leu	Leu
			20					25					30		
Ser	Phe	Gln	Met	Asp	Tyr	Gly	Trp	Ile	Leu	Pro	Trp	Gly	Ala	Cys	Thr
		35					40					45			
Val	Arg	His	Gly	Lys	Pro	Gly	Met	Gly	Lys	Arg	Ser	Gly	Gly	Ser	Leu
	50					55					60				
Pro	His	Leu	Thr	Ala	Leu	Val	Leu	Cys	Leu	Thr	Ser				
65					70					75					

<210> 187

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 187

Met	Leu	Ala	Phe	Pro	Val	Leu	Leu	Glu	Val	Ser	Trp	Ser	Val	Leu	Phe
1				5					10					15	
Xaa	Phe	Ser	Phe	Phe	Ser	Pro	Xaa	Pro	Ser	Ala	Pro	Gln	Pro	Pro	Thr
			20					25					30		

FOOT-0232650

[illegible]

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<210> 188
<211> 65
<212> PRT
<213> Homo sapiens

<400> 188
Met Val Glu Asn Trp Val Leu Glu Glu Ser Pro Gly Arg Leu Leu Ala
 1             5             10             15
Leu Phe Val Val Arg Arg Ala Leu Ala Gln Gly Gln Arg Glu Glu Lys
          20             25             30
Gly Gln Pro Ala Ala Val Glu Ser Ala Gly Trp Leu Pro Thr Arg Phe
          35             40             45
Leu Ser Ser Gln Asp Ser Leu Pro Leu Ser Ser Arg Ile Ser Asn Gly
 50             55             60
Leu
65

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<210> 189
<211> 109
<212> PRT
<213> Homo sapiens

<400> 189
Met Ile Lys Lys Asp Lys Tyr His Lys Lys Val Phe Leu Phe Gly Trp
 1             5             10             15
Phe Phe Cys Leu Phe Val Phe Phe Leu Arg Leu Ser Leu Ser Leu Leu
      20             25             30
Pro Lys Leu Glu Cys Asn Leu Gly Ser Leu Gln Pro Pro Pro Pro Arg
      35             40             45
Phe Gln Arg Phe Ser Cys Leu Ser Leu Leu Asn Ser Trp Asp Tyr Arg
      50             55             60
Arg Pro Pro Pro His Leu Ala Asn Phe Cys Val Val Ser Arg Gly Gly
      65             70             75             80

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Val Ser Ser Cys Trp Pro Gly Trp Ser Arg Thr Pro Asp Leu Met Ile  
85 90 95

Arg Leu Pro Arg Pro Pro Arg Val Leu Gly Leu Gln Ala  
100 105

<210> 190

<211> 51

<212> PRT

<213> Homo sapiens

<400> 190

Met Arg Lys Ser Gly Ala Met Lys Lys Gly Gly Ile Phe Ser Ala Glu  
1 5 10 15

Phe Leu Lys Val Phe Ile Pro Ser Leu Phe Leu Ser His Val Leu Ala  
20 25 30

Leu Gly Leu Gly Ile Tyr Ile Gly Lys Arg Leu Ser Thr Pro Ser Ala  
35 40 45

Ser Thr Tyr  
50

<210> 191

<211> 80

<212> PRT

<213> Homo sapiens

<400> 191

Met Ala Phe Leu Pro Leu Thr Leu Thr Phe Cys Leu Ala Pro Leu Ala  
1 5 10 15

Pro Leu Leu Pro Ser Ile Trp Gly Pro Thr Pro Ala Ser Cys Val Val  
20 25 30

Trp Pro Leu Leu Thr Ile Leu Pro Val Pro Ala Gln Ala Ser Pro Ser  
35 40 45

Thr Asp Thr Ala His Leu Trp Gln Arg Pro Thr Thr Gly Ser Pro Thr  
50 55 60

Arg Leu Val Arg Pro Leu Pro Arg Pro Gly Leu Pro Pro Met Trp Ala  
65 70 75 80

<210> 192

<211> 31

<212> PRT

<213> Homo sapiens

<400> 192

Met Ile Thr Leu Cys Ile Phe Leu Leu Phe Lys Val Phe Val Gly Ile

FOOTNOTES 3222660



&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 195

Met Ser Phe Ser Leu Ala His Val Lys Thr Gly Gln Gly Pro Arg Leu  
 1 5 10 15

Thr Glu Ala Leu Gln Tyr Ile Ala Ser Lys Ile Ala Val Gly Val Thr  
 20 25 30

Ser Ser Gln Lys Ser Gly Glu Glu Arg Ala Met Xaa Thr Gln Glu Leu  
 35 40 45

Leu Met Asp Gln Ala Trp Asp Ser Val Cys His Phe His Gln His Pro  
 50 55 60

Thr His Gln Asn Xaa Val Thr Gly Pro  
 65 70

&lt;210&gt; 196

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 196

Met Leu Cys Leu Leu Val Leu Thr Gly Leu Xaa Val Leu Ile Val Gly  
 1 5 10 15

Ile His Ile Leu Glu Leu Leu Ile Asp Glu Ala Ala Met Pro Arg Gly  
 20 25 30

Met Gln Gly Thr Ser Leu Gly Gln Val Ser Phe Ser Lys Leu Gly Ser  
 35 40 45

Phe Ala Ser Ser Ala Ser Leu Ser Ala Arg  
 50 55

&lt;210&gt; 197

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 197

Met Leu Gln Thr Leu Ile Leu Ile Phe Leu Leu Leu Leu Pro Cys Tyr  
 1 5 10 15

Leu Glu Leu Leu Cys Phe Ser Leu Ile Ser Ser Ser Ala Lys Thr  
 20 25 30

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<210> 198  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 198  
 Met Pro Phe Ser Ser Ser Val Lys Cys Leu Phe Gly Val Leu Leu Arg  
           1                          5                          10                          15  
 Phe Cys Phe Val Val Phe Ser Val Val Val Phe Thr Phe Phe Leu Ser  
                           20                          25                          30  
 Ile Pro Lys Arg Thr Leu Gly Tyr  
                           35                          40

<210> 199  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 199  
 Met Gly Gly Lys Gly Ile Asn Tyr Thr Met Pro His Ile Cys Leu Leu  
           1                          5                          10                          15  
 Leu Leu Asn Ala Leu Val Val Ser Cys Leu Leu Leu Glu Ala Ile Leu  
                           20                          25                          30  
 Leu Gln His Leu Val Leu Cys Asn Glu Leu Pro  
                           35                          40

<210> 200  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 200  
 Met Phe Met Leu Cys Asn Leu Leu Leu Pro Leu Leu Glu Phe Ile Phe  
           1                          5                          10                          15  
 Gly Ser Thr Tyr Leu Ser Thr Asp Leu Tyr Leu His Thr Cys Met Lys  
                           20                          25                          30  
 Asn Val Phe Leu His Ile His Ser Phe  
                           35                          40

<210> 201  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 201  
 Met Leu Val Leu Met Thr Thr Cys Ile Leu Ala Ala Val Cys Val His  
           1                          5                          10                          15  
 Thr Ala Gln Cys Ala Pro Asp Ser Arg Met Asp Asn Asp Cys Pro Ser

105

20 25 30  
 His Gln Ala Gln Ile His Phe Arg Ala Ser Glu Val Arg Arg Gly Trp  
 35 40 45

Thr Phe Asn His Asp  
 50

<210> 202  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 202  
 Met Gly Pro Ser Gln Arg Glu Val Thr Val Gln Trp His Arg Ala Leu  
 1 5 10 15

Phe Leu Leu Pro Leu Leu Leu Leu Ser Thr Arg Thr Glu Thr Lys Asn  
 20 25 30

Phe Gly Phe Lys Trp Leu Lys Asp  
 35 40

<210> 203  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 203  
 Met Phe Thr Thr Arg Phe Pro Lys Leu Leu Ile Phe Pro Lys Ile Val  
 1 5 10 15

Thr Glu Asn Cys Cys Leu Leu Phe Cys Ser Phe Trp Gly Trp Trp Cys  
 20 25 30

Trp Leu Gly His Ala Cys Glu Val Met Cys Val Ser Asp Leu Thr Asp  
 35 40 45

Ser Leu Phe Ser Leu Leu Ile Glu Arg Ala Leu Phe Thr Leu Phe Ile  
 50 55 60

Cys Phe Asp Thr Ser Ala Phe Ser Val Leu Ser  
 65 70 75

<210> 204  
 <211> 104  
 <212> PRT  
 <213> Homo sapiens

<400> 204  
 Met Leu Cys Pro Asn His Gly Leu Phe Pro Asp Pro Gly Phe Gln Cys  
 1 5 10 15

Pro Pro Leu Phe Gln Glu Val Gln Arg Asp Ala Pro His Arg Lys Gly  
 20 25 30

Ser Ala Thr Val Leu Pro Arg Cys Pro Pro Trp Val Pro Ser Leu Lys  
           35                          40                          45

His Arg Thr Ser His Thr Ser Ser Pro Ala Val Pro Leu Ile Leu Val  
           50                          55                          60

Pro Arg Leu Pro Ser Leu Gln Leu His Ser Phe Ile Gln His Ser Leu  
           65                          70                          75                          80

Gly Asp Phe Tyr Ile Asp Thr Pro Arg Thr Glu Ala Trp Gly Lys Asp  
                           85                          90                          95

Asp Gln Glu His Val Pro Ser Arg  
                           100

<210> 205  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (56)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 205  
 Met Leu Pro Leu Tyr Phe Leu Gln Pro Tyr Leu Ser Leu Val Ile Phe  
   1                          5                          10                          15

Ile Met Leu Arg Asp Asn Trp His Leu Leu Ala Leu Thr Cys Ser Tyr  
                           20                          25                          30

Ser Ile Ile Trp Arg Leu Ser Pro Asp Thr Asn Pro Ser Pro Ile Ala  
           35                          40                          45

Pro Ser Arg His Xaa Gln Leu Xaa Val Val Ala Ile Ala Pro Leu Glu  
           50                          55                          60

Pro Ser Pro His Ser His Met Gln Ser Ile Pro Lys Asn Leu Ala Gln  
           65                          70                          75                          80

Phe Ser Ser Ser Gln Met Phe Ser Leu Thr Leu Gln Leu Val Tyr Ile  
                           85                          90                          95

Ser Ser

<210> 206  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 206

Met	Glu	Asn	Asp	Trp	Gly	Phe	Gln	Thr	Thr	Phe	Phe	Ser	Leu	Gly	Leu
1				5					10					15	

Tyr	Leu	Phe	Thr	Ile	Trp	Trp	Ser	Thr	Val	Gly	Leu	Pro	Trp	Thr	Ser
			20					25					30		

Ser	Thr	Gln	Arg	Glu	Leu	Asp	Met	Lys	Leu	Glu	Ala	Ala	Ala	Leu	Glu
		35					40					45			

Gly	Lys	Xaa	Gly	Ser	Leu	Gly	Gln	Pro	Arg	Pro	Trp	Gln	Glu	Glu	Ser
	50					55					60				

Leu	Pro	Leu	Gly	Val	Leu	Asp	Gly	His	Val
65						70			

&lt;210&gt; 207

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 207

Met	Phe	His	Val	Phe	Val	Leu	Leu	Leu	Thr	Phe	Ile	Ala	Leu	Ser	Pro
1				5					10					15	

Ser	Gly	Ile	Arg	Leu	Leu	Phe	Gly	Phe	Ile	Gln	Lys	Gly	Leu	Asn	Leu
			20					25					30		

Asn	Ser	Phe	Met	Phe	Arg	Leu	Glu	Leu	Leu	His	Phe
		35					40				

&lt;210&gt; 208

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 208

Met	Phe	Glu	Asp	Thr	Leu	Arg	Thr	Leu	Tyr	Ile	Leu	Leu	Phe	Tyr	Leu
1				5					10					15	

Arg	Tyr	Ile	Cys	Leu	Leu	Ser	Pro	His	Ile	Ala	Leu	Met	Thr	Leu	Ile
			20					25					30		

Leu	Ile	Asp	Gly	Phe	Leu	Gln	Cys	Tyr	Tyr	Cys	Ala	Leu	His	Val	Pro
		35					40					45			

Cys	Ile	Ile	Ala	Phe	Leu
50					

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<210> 212  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 212  
 Met Gln Ser Gly Arg Ser Trp Ala Leu Lys Met Val Leu Leu Cys Asn  
   1                  5                  10                  15  
 Ser Cys Leu Gly Leu Gly Val Gly Ser Val Gly Pro Ser Met Ser Ser  
                   20                  25                  30  
 Leu Phe Gly Ala Val Leu Ser Glu Thr Pro Gly Ser Ser Val Tyr  
           35                  40                  45

<210> 213  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 213  
 Met Ser Glu Leu Ser Ala Phe Met Phe Ser Thr Ile Ile Phe Leu Met  
   1                  5                  10                  15  
 Ala Gln Pro Thr Ser Cys Phe  
                   20

<210> 214  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 214  
 Met Met Phe Cys Phe Leu Ile Trp Val Val Val Thr Phe Thr Tyr Ser  
   1                  5                  10                  15  
 Leu Asn Cys Thr Phe Val Leu His Lys Phe Ile Ile Phe Pro Asn Phe  
           20                  25                  30  
 Lys Lys Val Lys Arg Arg Arg Lys Lys Leu Val Met Lys Val  
           35                  40                  45

<210> 215  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 215  
 Met Ile Leu Val Ser Lys Leu Phe Phe Gly Phe Ser Leu Met Phe Leu  
   1                  5                  10                  15  
 Ile Phe Phe Pro Leu Ala Thr Met Thr Val His Val Leu Ile Asn Ile  
           20                  25                  30

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<210> 220  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 220  
 Met Ser Pro Gly Arg Val Ser Val Val Ser Leu Gln Gly Ser Gln Leu  
   1                  5                  10                  15  
 Cys Leu Leu Val Ser Ile Ala Ile Met Gly Leu Leu Leu Phe  
                   20                  25                  30

<210> 221  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 221  
 Met Ser Gly Leu Glu Ser Ala Arg Val Leu Leu Cys Ala Leu Gly Ser  
   1                  5                  10                  15  
 Phe Leu Leu Asn Ser Leu Leu Ser Thr Phe Arg Leu Asn Ser Ser Ala  
                   20                  25                  30

Pro Ser

<210> 222  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 222  
 Met His Ser Ile Ile Val Lys Glu Leu Ile Val Thr Phe Phe Leu Gly  
   1                  5                  10                  15  
 Ile Thr Val Leu Leu Leu Leu Met Gln Arg Ser Leu  
                   20                  25

<210> 223  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 223  
 Met Lys Ser Val Ile Phe Ile Gln Ser Val Ile Leu Phe Phe Leu Pro  
   1                  5                  10                  15  
 Met Ser Gly Asp His Gln Gly Ile Ser Gly Leu Asp Glu Leu Pro Gln  
                   20                  25                  30

Ala

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<210> 224
<211> 91
<212> PRT
<213> Homo sapiens
```

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<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids
```

Met Val Val Asp Gln Lys Glu Asp Leu Ile Thr Gly Leu Gly Ile Lys  
1 5 10 15

Glu Glu Arg Glu Gly Leu Gly Ser Leu Cys Thr Cys Cys Pro Trp Gly  
35 40 45

Glu Pro Leu Arg Ala Glu Val Thr Asp Pro Lys His Pro Cys Ser Cys  
65 70 75 80

```
<210> 225
<211> 28
<212> PRT
<213> Homo sapiens
```

Met Leu Ser Leu Asp Phe Pro Leu Ile Leu Leu Gly Leu Asn Leu His  
1 5 10 15

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<210> 226
<211> 59
<212> PRT
<213> Homo sapiens
```

Met Val Val Val Ser Thr Asn Gly Phe Leu Leu Leu Leu Phe Leu  
1 5 10 15

113

Ser Ser Cys Pro Ser Arg His Gln Ala Gly Pro Arg Ile Lys Cys Asp  
35 40 45

Phe Lys Trp Gly Lys Leu Cys Tyr Ser Cys Ala  
50 55

<210> 227

<211> 67

<212> PRT

<213> Homo sapiens

<400> 227

Met Pro Val Tyr Asp Phe Asn Trp Trp Tyr Ser Leu Tyr Phe Ile Ile  
1 5 10 15

Tyr Ile Ile Ile Asn Thr Tyr Ile Phe Lys Ser Val Phe Leu Ala Met  
20 25 30

Val Tyr Ser Asn Tyr Arg Lys His Phe His Ile Leu Cys Val Cys Val  
35 40 45

Cys Val Phe Cys Ser Asp Glu Gln Asn Leu Leu Phe Thr Gln Phe Tyr  
50 55 60

Tyr Leu Ser  
65

<210> 228

<211> 31

<212> PRT

<213> Homo sapiens

<400> 228

Met Pro Pro Pro Glu Cys Leu Ser Asp Cys Ser Lys Val Ala Leu Val  
1 5 10 15

Met Val Leu Phe Leu Phe Leu His Gln Ser Ser Cys Trp Ala Ala  
20 25 30

<210> 229

<211> 35

<212> PRT

<213> Homo sapiens

<400> 229

Met Ala Ser Ser Val Thr Val Lys Glu Val Cys Val Leu Phe Asn Leu  
1 5 10 15

Leu Ile Ile Ile Thr Ala Met Val Tyr His Ser Phe Thr Lys Tyr Gln  
20 25 30

Thr Leu Phe  
35

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```
<210> 230
<211> 50
<212> PRT
<213> Homo sapiens
```

```

<400> 230
Met Ile Phe Leu Phe Phe Ile Leu Phe Glu Ile Ile Val Thr Leu Trp
  1             5             10             15

Leu Thr Pro Thr Tyr Pro Gln Ala Phe Ser Glu Leu Thr Ile Gln Ile
      20             25             30

Thr Ala Pro Phe Gly Ser Leu Pro Gln Gln Leu Tyr Leu His Met Ser
      35             40             45

Ile Ile
    50

```

```
<210> 231
<211> 53
<212> PRT
<213> Homo sapiens
```

```

<400> 231
Met Gln Leu Leu Cys Ser Pro Tyr Pro Glu Glu Lys Pro Lys Gly Ser
  1          5          10          15
Asn Arg Asn Phe Cys Asn Trp Phe Leu Ser Glu Arg Ser Ser Cys Leu
      20          25          30
Gln Met Leu Leu Lys Gly His Lys Lys Leu Glu Leu Glu Lys Ile Asp
      35          40          45
Glu Ser Ala Gly Val
      50

```

```
<210> 232
<211> 35
<212> PRT
<213> Homo sapiens
```

```
<400> 232
Met His Ile Thr Ser Leu Val Gly Ala Gly Thr Leu Met Val Leu Leu
  1             5             10             15

Leu Leu Ile Leu Leu Leu Glu Cys Phe Phe Val Ala Glu Ala Leu Val
      20             25             30

Met Arg Ser
      35
```

<210>	233
<211>	33
<212>	PRT



<223> Xaa equals any of the naturally occurring L-amino acids

<400> 236

Met Lys Pro Thr Leu Ser Lys Phe Leu Gly Thr Asp Ala Glu Leu Pro  
1 5 10 15

Lys Leu Tyr Pro Pro Ser Leu Gln Ala Pro Arg Gly Glu Thr Gln Leu  
20 25 30

Leu Gly Pro Gly Leu Glu Arg Pro Thr Arg Glu Gly Arg Val Glu Gln  
35 40 45

Met Leu Phe Asn Gln Lys Ser Val Ser Trp Gly Ser Gln Leu Pro Gln  
50 55 60

Ser Xaa Asn Thr Phe Leu Lys Asn Xaa Asp Pro  
65 70 75

<210> 237

<211> 42

<212> PRT

<213> Homo sapiens

<400> 237

Met His Ala Leu Ser Tyr Thr His Leu Ser Leu Leu Ser Leu Phe Leu  
1 5 10 15

Phe Leu Pro Pro Ser Phe Leu Tyr Tyr Asn Leu Val Ile Leu Phe Phe  
20 25 30

Glu Ala Phe Gln Asn Ile Ser His Leu Ser  
35 40

<210> 238

<211> 40

<212> PRT

<213> Homo sapiens

<400> 238

Met Trp Val Gln Leu Ile Phe Phe Phe Val Gln Tyr Gly Asp Ser Leu  
1 5 10 15

Thr Ser Ala Phe Phe Pro Phe Ser Ser Asn Phe Ser Leu Gln Asn Ser  
20 25 30

Gly Phe Ser Met His Lys Leu Lys  
35 40

<210> 239

<211> 38

<212> PRT

<213> Homo sapiens

<400> 239

Met Thr Ser Leu Pro Ile Leu Ala Phe Gly Ala Val Tyr Trp Pro Asp

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117  
1 5 10 15  
Leu Ala Ser His Ser Phe Ser Pro Ser Arg Ser Leu Ala Gln Thr Pro  
20 25 30

His Met Ser Val Ser Gly  
35

<210> 240  
<211> 47  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 240  
Met Thr Pro Trp Leu Leu Ile Leu Val Ser Xaa Gly Phe Leu Lys Ser  
1 5 10 15

Ile Ser Asp Pro Gln Phe Gln Glu Leu Ser Ile Asn Ile Ala Ser Cys  
20 25 30

His Pro Gly Thr Val Met Pro Tyr Ser Gly Thr Ser His Leu Lys  
35 40 45

<210> 241  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 241  
Met Thr Gly Thr Pro Ala Trp Ala His Leu Leu Leu Leu Leu Leu  
1 5 10 15

Gly Ser Ala Pro Gln Thr Arg Leu Trp Pro Pro Ser Gln Cys Pro Val  
20 25 30

Thr Ser Pro Glu  
35

<210> 242  
<211> 54  
<212> PRT  
<213> Homo sapiens

<400> 242  
Met Val Leu Gln Asn Thr Asn Thr Leu Leu Ile Val Ser Ala Phe Leu  
1 5 10 15

Leu Ser Met Leu Phe Phe Lys Phe Ser Ile Ala Ile Phe Leu Val Thr  
20 25 30

Leu Phe Leu Asn Phe Lys  
50

<211> 36

<212> PRT

<213> Homo sapiens

<400> 243

Met Tyr Glu Val Asp Lys Lys Ile Tyr Ser Asn Phe Ile Gln Ile Leu  
1 5 10 15

Ile Val Ile Ile Phe Val Leu Tyr Leu Ile Ile Asn Gln Asn Thr Phe  
20 25 30

Ala Phe Leu Ser  
35

<210> 244

<211> 42

<212> PRT

<213> Homo sapiens

<400> 244

Met Cys Ile Leu Pro Leu Met Leu Thr Tyr Pro Ile Leu Pro Lys Val  
1 5 10 15

Val Gly Asn Asn Ile Leu Leu Gly Asp Ser Gly Leu Thr Ser Leu Val  
20 25 30

Ile Pro Leu Ser Val Val Phe Asn Leu Lys  
35 40

<210> 245

<211> 23

<212> PRT

<213> Homo sapiens

<400> 245

Met Asn Phe Leu Leu Leu Ile Phe Pro Tyr Phe Ser Ser Leu Leu Gly  
1 5 10 15

Glu Val Glu Val Val Lys Cys  
20

<210> 246

<211> 66

<212> PRT

<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 246

Met Thr Trp Lys Gly Trp Ser Arg Thr Arg Ile Trp Lys Pro Ser Leu  
 1 5 10 15

Pro Gln Leu Phe Thr Met Tyr Leu Leu Ala Gln Ile Arg Ala Ala Ser  
 20 25 30

Arg Ala Ser Glu Asp Ser Cys Ser Tyr Ser Ser Asp Thr Met Trp Pro  
 35 40 45

Gln Ser Gly Asn Ser Ser Thr Phe Ala Phe Phe Arg Pro Arg Xaa Lys  
 50 55 60

Met Arg  
 65

&lt;210&gt; 247

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 247

Met Trp His Leu Ser Phe His Cys Leu Leu Leu Leu Leu Pro Leu Cys  
 1 5 10 15

Glu Val Thr His Ser Leu Phe Ala Phe Tyr His Asn Trp Lys Leu Phe  
 20 25 30

Glu Ala Ser Leu Glu Thr Glu Ala Ala Met Leu Pro Val Gln Pro Ala  
 35 40 45

Glu Pro Arg Ala Asn  
 50

&lt;210&gt; 248

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 248

Met Val Ser Leu Asn Leu Ser Leu Pro Asn Asn Ile Ile Ser Leu Val  
 1 5 10 15

Phe Phe Phe Leu Leu Gln Pro Val Gln Lys Gly Val Ser Gly Gly  
 20 25 30

&lt;210&gt; 249

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

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Gly Glu Val Gly Pro Ile Gly Pro Pro Gly Pro Lys Gly Asp Xaa  
 115 120 125

<210> 252  
 <211> 142  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (92)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (136)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (138)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 252  
 Met Cys Ala Phe Pro Trp Leu Leu Leu Leu Leu Leu Gln Glu Gly  
 1 5 10 15  
 Ser Gln Arg Arg Leu Trp Arg Trp Cys Gly Ser Glu Glu Val Val Ala  
 20 25 30  
 Val Leu Gln Glu Ser Ile Ser Leu Pro Leu Glu Ile Pro Pro Asp Glu  
 35 40 45  
 Glu Val Glu Asn Ile Ile Trp Ser Ser His Lys Ser Leu Ala Thr Val  
 50 55 60  
 Val Pro Gly Lys Glu Gly His Pro Ala Thr Ile Met Val Thr Asn Pro  
 65 70 75 80  
 His Tyr Gln Gly Gln Val Ser Phe Leu Asp Pro Xaa Tyr Ser Leu His  
 85 90 95  
 Ile Ser Asn Leu Ser Trp Glu Asp Ser Gly Leu Tyr Gln Ala Gln Val  
 100 105 110  
 Asn Leu Arg Thr Ser Gln Ile Ser Thr Met Gln Gln Tyr Asn Leu Cys  
 115 120 125  
 Val Tyr Arg Trp Leu Ser Glu Xaa Pro Xaa His Cys Glu Leu  
 130 135 140

<210> 253  
 <211> 222  
 <212> PRT  
 <213> Homo sapiens

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&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (86)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 253

Met	His	Phe	Gln	Arg	Gln	Lys	Leu	Met	Ala	Val	Thr	Glu	Tyr	Ile	Pro
1					5				10					15	
Pro	Lys	Pro	Ala	Ile	His	Pro	Ser	Cys	Leu	Pro	Ser	Pro	Pro	Ser	Pro
			20					25					30		
Pro	Gln	Glu	Glu	Ile	Gly	Leu	Ile	Arg	Leu	Leu	Arg	Arg	Glu	Ile	Ala
		35					40					45			
Ala	Val	Phe	Gln	Asp	Asn	Arg	Met	Ile	Ala	Val	Cys	Gln	Asn	Val	Ala
	50					55					60				
Leu	Ser	Ala	Glu	Asp	Lys	Leu	Leu	Met	Arg	His	Gln	Leu	Arg	Lys	His
65					70					75					80
Lys	Ile	Leu	Met	Lys	Xaa	Phe	Pro	Asn	Gln	Val	Leu	Lys	Pro	Phe	Leu
				85					90					95	
Glu	Asp	Ser	Lys	Tyr	Gln	Asn	Leu	Leu	Pro	Leu	Phe	Val	Gly	His	Asn
			100					105					110		
Met	Leu	Leu	Val	Ser	Glu	Glu	Pro	Lys	Val	Lys	Glu	Met	Val	Arg	Ile
	115						120					125			
Leu	Arg	Thr	Val	Pro	Phe	Leu	Pro	Leu	Leu	Gly	Gly	Cys	Ile	Asp	Asp
	130					135					140				
Thr	Ile	Leu	Ser	Arg	Gln	Gly	Phe	Ile	Asn	Tyr	Ser	Lys	Leu	Pro	Ser
145					150					155					160
Leu	Pro	Leu	Val	Gln	Gly	Glu	Leu	Val	Gly	Gly	Leu	Thr	Cys	Leu	Thr
				165					170					175	
Ala	Gln	Thr	His	Ser	Leu	Leu	Gln	His	Gln	Pro	Leu	Gln	Leu	Thr	Thr
			180					185					190		
Leu	Leu	Asp	Gln	Tyr	Ile	Arg	Glu	Gln	Arg	Glu	Lys	Asp	Ser	Val	Met
		195					200					205			
Ser	Ala	Asn	Gly	Lys	Pro	Asp	Pro	Asp	Thr	Val	Pro	Asp	Ser		
	210					215					220				

&lt;210&gt; 254

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 254

Met	Met	Asn	Ile	Leu	Leu	Leu	Lys	Tyr	Ile	Leu	Glu	Ile	Leu	Ile	Leu
1				5					10					15	
Ser	Glu	Asn	Leu	Asn	Leu	Phe	Asn	Ile	Thr	Tyr	Gly	Lys	Tyr	Asn	Leu
		20					25						30		

Phe Phe Leu Tyr Arg Tyr  
35

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<210> 255
<211> 32
<212> PRT
<213> Homo sapiens
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<400> 255  
Met Gln Arg Met Leu Val Leu Leu Phe Phe Phe Phe Ser Leu Leu Ala  
1 5 10 15

Ile Asn Pro Ala Glu Thr Ile Cys Gly Tyr Gly Ser Thr Trp Lys Phe  
20 25 30

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<210> 256
<211> 52
<212> PRT
<213> Homo sapiens
```

<400> 256  
Met Pro Ser Leu Asn Leu Val Leu Arg Pro Leu Ile Cys Leu Ala Ser  
1 5 10 15

Ile Thr Ser Phe Leu Ile Phe Phe Pro Leu Leu Thr Leu Ile Leu Cys  
20 25 30

Ser Pro Asn Ser Pro Pro Phe Pro Leu Pro Ala His Pro Glu Arg His  
35 40 45

Thr His Thr Gln  
50

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<210> 257
<211> 148
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (61)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (142)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 257  
Met Arg Lys Ile Ala Gln Cys Ala Pro Gly Val Val Glu Leu Val Leu  
1 5 10 15

**SECRET**

Ile Pro Leu Arg Gln Arg Leu Glu Glu Arg Gln Arg Arg Arg Lys Gln  
                   20                                  25                                  30  
 Gly Ala Gly Ser Leu Gln Glu Leu Ala Pro Gln Asp Gly Ser Gly Tyr  
                   35                                  40                                  45  
 Met Asp Val Gly Val Ser Gln Lys Ala Arg Gly Glu Xaa Val Pro Asp  
           50                                  55                                  60  
 Pro Gln Gly Gly Gly Gln Leu Ser Trp Asp Arg Pro Pro Ala Pro Arg  
       65                                  70                                  75                                  80  
 Pro Pro Ala Tyr Asn Arg Ala Leu Gln Gly Asp Pro Ser Phe Val Leu  
                                   85                                  90                                  95  
 Gln Ile Ala Glu Lys Glu Gln Glu Leu Leu Ala Ser Gln Glu Thr Val  
                   100                                  105                                  110  
 Gln Val Leu Gln Met Lys Val Arg Arg Leu Glu His Leu Leu Gln Leu  
           115                                  120                                  125  
 Lys Asn Val Arg Ile Glu Asn Leu Ser Arg Arg Leu Gln Xaa Ala Glu  
       130                                  135                                  140  
 Arg Lys Gln Arg  
 145

<210> 258  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 258  
 Met Ser Ile Thr Ser Asn Thr Tyr Phe Phe Leu Leu Gly Ala Phe Lys  
       1                                  5                                  10                                  15  
 Ile Leu Ser Ser Ser Tyr Trp Lys Ile His Thr Lys Leu Leu Leu Thr  
                   20                                  25                                  30  
 Ile Val Pro Leu Gln Cys Cys Gly Met Pro Gln Leu Ile Pro Pro Leu  
           35                                  40                                  45  
 Gln Leu  
       50

<210> 259  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 259  
 Met Tyr Ile Phe His Phe Val Phe Leu Ile Gly Tyr Ala Met Cys Gly  
       1                                  5                                  10                                  15  
 Ile Gln Val Thr Asn Val Thr Leu Ala Ser Gly Pro Ser Asn Leu His  
           20                                  25                                  30





126  
1 5 10

<210> 263  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 263  
Met Ser His Cys Ala Trp Leu His Leu Gln Leu Phe Leu Ser Leu  
1 5 10 15

<210> 264  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 264  
Met Lys Phe Ile Met Leu Leu Leu Leu Pro Ser Ile Phe Pro Thr Thr  
1 5 10 15

Val Glu Met Ile  
20

<210> 265  
<211> 51  
<212> PRT  
<213> Homo sapiens

<400> 265  
Met Ala Val Pro Ser Gly Cys Trp Pro Ser Trp Pro Arg Pro Ser Ser  
1 5 10 15

Trp Trp Ser Thr Arg Ile Ser Pro Arg Ser Ala Thr Pro Leu Thr Ala  
20 25 30

Ser Thr Trp Ser Leu Val Thr Cys Ser Ser Gln Val Ser Ala Cys Gly  
35 40 45

Thr Ser Ile  
50

<210> 266  
<211> 61  
<212> PRT  
<213> Homo sapiens

<400> 266  
Met Ser Asn Leu Gln Phe His Leu Leu Pro His Ser Ser Pro Ile Leu  
1 5 10 15

Pro Leu Phe Thr Leu Ala Leu Leu Lys Met Gln Ile Pro Gly Leu Arg  
20 25 30

Leu Leu Pro Ser Ser Glu Ser Tyr Leu Val Phe Glu Ile  
50 55 60

<211> 209

<212> PRT

<213> Homo sapiens

<400> 267

Met Cys Pro Leu Trp Arg Leu Leu Ile Phe Leu Gly Leu Leu Ala Leu  
1 5 10 15

Pro Leu Ala Pro His Lys Gln Pro Trp Pro Gly Leu Ala Gln Ala His  
20 25 30

Arg Asp Asn Lys Ser Thr Leu Ala Arg Ile Ile Ala Gln Gly Leu Ile  
35 40 45

Lys His Asn Ala Glu Ser Arg Ile Gln Asn Ile His Phe Gly Asp Arg  
50 55 60

Leu Asn Ala Ser Ala Gln Val Ala Pro Gly Leu Val Gly Trp Leu Ile  
65 70 75 80

Ser Gly Arg Lys His Gln Gln Gln Gln Glu Ser Ser Ile Asn Ile Thr  
85 90 95

Asn Ile Gln Leu Asp Cys Gly Gly Ile Gln Ile Ser Phe His Lys Glu  
100 105 110

Trp Phe Ser Ala Asn Ile Ser Leu Glu Phe Asp Leu Glu Leu Arg Pro  
115 120 125

Ser Phe Asp Asn Asn Ile Ile Lys Met Cys Ala His Met Ser Ile Val  
130 135 140

Val	Glu	Phe	Trp	Leu	Glu	Lys	Asp	Glu	Phe	Gly	Arg	Arg	Asp	Leu	Val
145					150					155					160

Ile Gly Lys Cys Asp Ala Glu Pro Ser Ser Val His Val Ala Ile Leu  
165 170 175

Thr Glu Ala Ile Pro Pro Lys Met Asn Gln Phe Leu Tyr Asn Leu Lys  
180 185 190

Glu Asn Leu Gln Lys Val Leu Pro His Met Val Glu Ser Gln Pro Leu  
195 200 205

Ala

<210> 268

<211> 74

<212> PRT

<213> Homo sapiens

<400> 268

Met Gly His Leu Phe Val Val Cys Leu Leu Ser Ser Trp Trp Thr Phe  
1 5 10 15

Arg Pro Phe Ala Leu Ala Val Thr Val Asn His Val Ala Val Asn Ile  
20 25 30

Val Cys Val Ser Ala Trp Thr Cys Val Ser Cys Ser Leu Gly Arg Ser  
35 40 45

Cys Gly Leu Glu Gly Ser Phe Leu Phe Pro Leu Glu Thr Leu Trp Phe  
50 55 60

Pro His Met Val Val Leu Cys Leu Thr Phe  
65 70

<210> 269

<211> 34

<212> PRT

<213> Homo sapiens

<400> 269

Met Gly Trp Gly Lys Glu Val Val Ser Leu Ile Val Leu Leu Val Asn  
1 5 10 15

Leu Phe Leu Cys Pro Trp Ala Leu Gly Leu Cys Leu Leu Ser Val Ser  
20 25 30

Ser Leu

<210> 270

<211> 58

<212> PRT

<213> Homo sapiens

<400> 270

Met Glu Pro Trp Ser Trp Phe Phe Phe Phe Phe Phe Phe Pro Gln  
1 5 10 15

Arg Thr Cys Gly Cys Ala Leu Cys Val Leu Phe Leu Phe Ser Ile Trp  
20 25 30

Gly Pro His Gly Lys Glu Leu Leu Asn Ser Phe Leu Tyr Glu Leu Pro  
35 40 45

Leu Cys Ser Tyr Lys Gly Pro Phe Leu Ser  
50 55

<210> 271

<211> 96

<212> PRT

<213> Homo sapiens





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<210> 273
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 273  
Met Phe Leu Thr Ile Ile Val Cys Gly Met Val Ala Ala Leu Ser Ala  
1 5 10 15

Cys Pro Glu Ser Trp Ile Gly Phe Gln Arg Lys Cys Phe Tyr Phe Ser  
35 40 45

Asp Ala Asp Leu Ala Gln Val Glu Xaa Phe Gln Glu Leu Xaa Arg Lys  
65 70 75 80

<400> 274  
Ala Ser Ser Leu Leu Val Ser Leu Gln Cys Leu Leu Gln Leu  
1 5 10

<210> 275  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 275  
 Met Leu Pro Ile His Leu Gln Trp Ala Cys Ala Phe Arg Ser Phe Leu  
           1                  5                  10                  15  
 Leu Gly Ile Asp Ser Ser Met Phe Val Leu Phe Gln His Pro Arg Leu  
                   20                  25                  30  
 Lys Asp Thr Lys Ser Ser Arg Val Ile Glu Pro Thr Leu Thr Asn  
           35                  40                  45

<210> 276  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 276  
 Met Ile Val Ile Thr Ser Ile Leu Ser Ser Leu Ala Ser Leu Leu Leu  
           1                  5                  10                  15  
 Leu Ala Phe Leu Ala Ala Ser Thr Ala Arg Leu Ser Pro Gln Ser Leu  
                   20                  25                  30  
 Pro Glu Thr  
           35

<210> 277  
 <211> 281  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (199)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (227)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (276)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 277  
 Met Gly Phe Pro Gln Arg Gln Pro Gly Leu Ser Gly Leu Leu Leu Leu



133

1	5	10	15
Val Trp Ala Leu Ala Trp Pro Leu Pro Cys Met Ser Leu Glu Leu Ile	20	25	30
Pro Tyr Thr Pro Gln Ile Thr Ala Trp Asp Leu Glu Gly Lys Val Thr	35	40	45
Ala Thr Thr Phe Ser Leu Glu Gln Pro Arg Cys Val Leu Asp Gly Leu	50	55	60
Xaa Gly Val Ala Ser Thr Ile Trp Leu Val Val Ala Phe Ser Asn Ala	65	70	75
Ser Arg Asp Phe Gln Asn Pro Gln Thr Arg Ala Glu Ile Pro Ala Phe	85	90	95
Pro Arg Leu Leu Thr Glu Gly His Tyr Met Thr Leu Pro Leu Ser Leu	100	105	110
Asp Gln Leu Pro Cys Gln Asp Pro Ala Gly Gly Gly Arg Asp Val Pro	115	120	125
Leu Leu Arg Val Gly Asn Asp Pro Gly Cys Leu Ala Asp Leu Leu Gln	130	135	140
Pro Pro Tyr Cys Asn Ser Pro Leu Pro Ser Pro Gly Pro Tyr Arg Val	145	150	155
Lys Phe Leu Leu Met Asp Ala Arg Gly Ser Pro Gln Ala Glu Thr Arg	165	170	175
Trp Ser Asp Pro Ile Ala Leu His Gln Gly Lys Ser Pro Ala Ser Ile	180	185	190
Asp Thr Trp Pro Gly Arg Xaa Ser Gly Gly Met Ile Val Ile Thr Ser	195	200	205
Ile Leu Ser Ser Leu Ala Ser Leu Leu Leu Leu Ala Phe Leu Ala Ala	210	215	220
Ser Thr Xaa Arg Phe Ser Ser Leu Trp Trp Pro Glu Glu Ala Pro Glu	225	230	235
Gln Leu Arg Ile Gly Ser Phe Met Gly Lys Arg Tyr Met Thr His His	245	250	255
Ile Pro Pro Ser Glu Ala Ala Thr Leu Pro Val Gly Cys Glu Pro Gly	260	265	270
Leu Asp Pro Xaa Pro Ser Leu Ser Pro	275	280	

<210> 278

<211> 45

<212> PRT

<213> Homo sapiens

<400> 278





<210> 285  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 285  
 Met Ile His Leu Ser Arg Phe Tyr Leu Leu Leu Ile Met Leu Pro His  
           1                  5                  10                  15  
 Val Leu Phe Phe Thr Gly Asp Leu His Ser  
                   20                  25

<210> 286  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 286  
 Met Tyr Lys Cys Trp Tyr Arg  
           1                  5

<210> 287  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 287  
 Met Xaa Leu Asn Lys Thr Lys Ser Leu Thr Leu Leu Glu Leu Val Phe  
           1                  5                  10                  15  
 Leu Pro Gly Glu Thr Val Ser Lys Pro Ser Thr Lys  
                   20                  25

<210> 288  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 288  
 Met His Arg Leu Trp Ile Gly Pro Ala Phe Phe Leu Met Thr Ser Leu  
           1                  5                  10                  15  
 Ser Val Ser Gly Ala Val Ile Pro Arg Asn Gly Gly Pro Gly Gly Val  
                   20                  25                  30



138  
85 90 95  
Pro Arg Pro Cys Arg Pro Pro Ala His Arg Leu His Cys His Asp Leu  
100 105 110  
Glu Ala Asp Arg Arg Pro Leu Ala Pro Arg  
115 120

<210> 292  
<211> 60  
<212> PRT  
<213> Homo sapiens

<400> 292  
Arg Ala Thr Gln Gly Ala Gly His Gly Ser Ser Asp Glu Glu Asn Glu  
1 5 10 15  
Asp Gly Asp Phe Thr Val Tyr Glu Cys Pro Gly Met Ala Pro Thr Gly  
20 25 30  
Glu Met Glu Val Arg Asn His Leu Phe Asp His Ala Ala Leu Ser Ala  
35 40 45  
Pro Leu Pro Ala Pro Ser Ser Pro Leu Ala Leu Pro  
50 55 60

<210> 293  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 293  
Lys Ala Glu Tyr Ala Thr Ala Lys Ala Leu Ala Thr Pro Ala Ala Thr  
1 5 10 15  
Pro Asp Leu Ala Trp Gly Pro Ala Pro Gly Thr Glu Arg Gly Asp Val  
20 25 30  
Pro Leu Pro Ala Pro Thr Ala Thr Asp Val Val Pro Gly Ala Ala  
35 40 45

<210> 294  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 294  
Ser Ala Glu Met Tyr His Tyr Gln His Gln Arg Gln Gln Met Leu  
1 5 10 15

<210> 295  
<211> 11  
<212> PRT

<213> Homo sapiens

<400> 295

Leu Glu Arg His Lys Glu Pro Pro Lys Glu Leu  
1 5 10

<210> 296

<211> 12

<212> PRT

<213> Homo sapiens

<400> 296

Ala Lys Cys Pro Pro Gly Ala His Ala Cys Gly Pro  
1 5 10

<210> 297

<211> 9

<212> PRT

<213> Homo sapiens

<400> 297

Pro Val His Met Ser Pro Leu Glu Pro  
1 5

<210> 298

<211> 12

<212> PRT

<213> Homo sapiens

<400> 298

Trp Cys Arg Leu Gln Arg Glu Ile Arg Leu Thr Gln  
1 5 10

<210> 299

<211> 18

<212> PRT

<213> Homo sapiens

<400> 299

Ser Ser Asp Glu Glu Asn Glu Asp Gly Asp Phe Thr Val Tyr Glu Cys  
1 5 10 15

Pro Gly

<210> 300

<211> 10

<212> PRT

<213> Homo sapiens

<400> 300





Val Pro Cys Cys Pro Gly Gly Gly Ala Glu Gly Trp Arg Arg Arg Cys  
35 40 45

Leu Arg Pro Pro Arg Gly Thr Cys Gly Cys Cys Gly Cys Cys Ser Pro  
50 55 60

Ala Ser Ser Ser Ala Pro Pro Cys Val Glu Pro Pro Pro Ala Thr Arg  
65 70 75 80

Asn Val Ala Ala Cys Pro Gly Ser Leu Asp Cys Ala Leu Lys Lys Arg  
85 90 95

Ala Ser Val Leu Leu Val His Met Pro Val Gly Leu Pro Ser Ala Leu  
100 105 110

Pro Xaa Gly Thr Ala Lys Ala Cys Phe Ala Xaa Met Arg Arg Ala Ser  
115 120 125

Xaa Gly Gly Arg Ala Gln Pro Xaa Leu Glu Met Arg Leu Ile Pro Gly  
130 135 140

Pro Arg Glu Leu Ala Arg Lys Gly Ile Trp Thr Ser Ile Pro Pro  
145 150 155

<210> 304

<211> 25

<212> PRT

<213> Homo sapiens

<400> 304

Arg Cys Leu Arg Cys Ser Arg Arg Gly Ala Arg Ser Pro Arg Arg Ala  
1 5 10 15

Pro Gly Leu Ala Val Pro Cys Cys Pro  
20 25

<210> 305

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 305

Gly Ser Leu Asp Cys Ala Leu Lys Lys Arg Ala Ser Val Leu Leu Val  
1 5 10 15

His Met Pro Val Gly Leu Pro Ser Ala Leu Pro Xaa Gly Thr Ala Lys  
20 25 30

Ala Cys

<210> 306  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 306  
 Asp Ser His Gln Ala Arg Ser Arg Arg Leu Glu Ala Leu Trp Ser Pro  
   1                  5                  10                  15  
 Ser Leu Gly Glu Val Ser Ser Ser Thr  
                   20                  25

<210> 307  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 307  
 Cys Arg Trp Arg Pro Glu Ser Ala Ala Pro Cys  
   1                  5                  10

<210> 308  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 308  
 Thr Arg Pro Gly Arg Gly Ala Gln Ala Pro Val Lys  
   1                  5                  10

<210> 309  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 309  
 Met Val Ser Trp Met Ile Ser Arg Ala Val Val Leu Val Phe Gly Met  
   1                  5                  10                  15  
 Leu Tyr Pro Ala Tyr  
                   20

<210> 310  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 310  
 Gly Met Leu Tyr Pro Ala Tyr Tyr Ser Tyr Lys Ala Val Lys Thr Lys  
   1                  5                  10                  15

Asn

<210> 311  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 311  
 Glu Tyr Val Arg Trp Met Met Tyr Trp Ile Val Phe Ala Leu Tyr Thr  
     1                    5                    10                    15

Val

<210> 312  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 312  
 Tyr Pro Ala Tyr Tyr Ser Tyr Lys Ala Val Lys Thr Lys Asn Val Lys  
     1                    5                    10                    15

Glu

<210> 313  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 313  
 Val Ala Trp Phe Pro Leu Tyr Tyr Glu Leu Lys Ile Ala  
     1                    5                    10

<210> 314  
 <211> 186  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (181)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 314  
 Met Val Ser Trp Met Ile Ser Arg Ala Val Val Leu Val Phe Gly Met  
     1                    5                    10                    15

Leu Tyr Pro Ala Tyr Tyr Ser Tyr Lys Ala Val Lys Thr Lys Asn Val  
             20                    25                    30

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Cys Asn Gly Pro Phe Lys His Phe Ser Phe Thr Val Ser Thr  
1 5 10

<213> Homo sapiens

Arg Ser Cys Lys Glu Ile Lys Asp  
1 5

<213> Homo sapiens

Gly Gly Gly Trp Thr Leu Val Ala Ser Val His Glu Asn  
1 5 10

<213> Homo sapiens

Ala Asp Tyr Pro Glu Gly Asp Gly Asn Trp Ala Asn Tyr Asn Thr Phe  
1 5 10 15

Gly Ser Ala

<213> Homo sapiens

Ala Thr Ser Asp Asp Tyr Lys Asn Pro Gly Tyr Tyr Asp Ile  
1 5 10

<213> Homo sapiens

Cys Ile Gly Gly Gly Gly Tyr Phe Pro Glu Ala

**1**                      **5**                      **10**

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<400> 323
Glu Ile Thr Glu Ala Ala Val Leu Leu Phe Tyr
      1             5             10
```

<400> 324  
Asp Ser Asp Lys Ile Thr  
1 5

<400> 325  
Tyr Gln Thr Phe Cys Asp Met Thr  
1 5

<400> 326  
Met Met Ala Thr Pro Ser Thr Arg Pro Pro Pro Pro Ala Ala Ser Thr  
1 5 10 15

Ala Asp Pro Leu Lys Asn Lys Ala Leu  
50 55

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<210> 327
<211> 76
<212> PRT
<213> Homo sapiens
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&lt;400&gt; 327

Leu Leu Leu Thr Ser Pro Leu Pro Arg Cys Pro Pro Ala Cys Ser His  
 1 5 10 15

Asp Ala Pro Ala His Pro Asp Pro Gly Gly Pro His Gly Leu Thr Ser  
 20 25 30

Gly Pro Gly Leu Gly Leu Pro Arg Val Cys Leu Gln Arg Arg Gln Leu  
 35 40 45

Leu Gln Pro His Ala Leu Pro Gly Tyr Gly Cys Leu Leu His Asp His  
 50 55 60

Ala His Leu Leu His Pro His Gln Asp Glu Gly Gln  
 65 70 75

&lt;210&gt; 328

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 328

Trp Leu Leu Gln Ala Arg Val His His Leu Leu Leu Pro Val Arg Pro  
 1 5 10 15

Leu Gln Arg His Arg Pro Cys His Pro Gly His Pro Gly Pro Gly Pro  
 20 25 30

His Pro Pro Gly His Pro Leu Gly Ser Pro Leu Lys Pro Pro Arg Gln  
 35 40 45

Thr His Ser Arg Thr Lys Leu Ser  
 50 55

&lt;210&gt; 329

&lt;211&gt; 300

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 329

Lys His Glu Xaa His Gln Val Ser Asp Gly Ala Leu Arg Cys Phe Ala  
 1 5 10 15

Ser Leu Ala Asp Arg Phe Thr Arg Arg Gly Val Asp Pro Ala Pro Leu  
 20 25 30

T00T0T"822E2660

148

Ala	Lys	His	Gly	Leu	Thr	Glu	Glu	Leu	Leu	Ser	Arg	Met	Ala	Ala	Ala		
		35					40					45					
Gly	Gly	Thr	Val	Ser	Gly	Pro	Ser	Ser	Ala	Cys	Lys	Pro	Xaa	Arg	Ser		
	50					55					60						
Thr	Thr	Gly	Ala	Pro	Ser	Thr	Thr	Ala	Asp	Ser	Lys	Leu	Ser	Asn	Gln		
65					70					75					80		
Val	Ser	Thr	Ile	Val	Ser	Leu	Leu	Ser	Thr	Leu	Cys	Arg	Gly	Ser	Pro		
			85						90					95			
Val	Val	Thr	His	Asp	Leu	Leu	Arg	Ser	Glu	Leu	Pro	Asp	Ser	Ile	Glu		
			100					105					110				
Ser	Ala	Leu	Gln	Gly	Asp	Glu	Arg	Cys	Val	Leu	Asp	Thr	Met	Arg	Leu		
		115					120					125					
Val	Asp	Phe	Leu	Leu	Val	Leu	Leu	Phe	Glu	Gly	Arg	Lys	Ala	Leu	Pro		
	130					135					140						
Lys	Ser	Ser	Ala	Gly	Ser	Thr	Gly	Arg	Ile	Pro	Gly	Leu	Arg	Arg	Leu		
145					150					155					160		
Asp	Ser	Ser	Gly	Glu	Arg	Ser	His	Arg	Gln	Leu	Ile	Asp	Cys	Ile	Arg		
			165						170					175			
Ser	Lys	Asp	Thr	Asp	Ala	Leu	Ile	Asp	Ala	Ile	Asp	Thr	Gly	Ala	Phe		
		180						185					190				
Glu	Val	Asn	Phe	Met	Asp	Asp	Val	Gly	Gln	Thr	Leu	Leu	Asn	Trp	Ala		
		195					200						205				
Ser	Ala	Phe	Gly	Thr	Gln	Glu	Met	Val	Glu	Phe	Leu	Cys	Glu	Arg	Gly		
	210					215					220						
Ala	Asp	Val	Asn	Arg	Gly	Gln	Arg	Ser	Ser	Ser	Leu	His	Tyr	Ala	Ala		
225					230				235						240		
Cys	Phe	Gly	Arg	Pro	Gln	Val	Ala	Lys	Thr	Leu	Leu	Arg	His	Gly	Ala		
			245					250						255			
Asn	Pro	Asp	Leu	Arg	Asp	Glu	Asp	Gly	Lys	Thr	Pro	Leu	Asp	Lys	Ala		
		260						265					270				
Arg	Glu	Arg	Gly	His	Ser	Glu	Val	Val	Ala	Ile	Leu	Gln	Ser	Pro	Gly		
	275						280					285					
Asp	Trp	Met	Cys	Pro	Val	Asn	Lys	Gly	Asp	Asp	Lys						
	290					295					300						

<210> 330

<211> 17

<212> PRT

<213> Homo sapiens

<400> 330

Pro	Leu	Asp	Lys	Ala	Arg	Glu	Arg	Gly	His	Ser	Glu	Val	Val	Ala	Ile		
1				5				10						15			



Leu

<210> 331  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 331  
 Ala Lys Thr Leu Leu Arg His Gly Ala Asn Pro Asp Leu Arg Asp  
           1                  5                  10                  15

<210> 332  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (50)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (52)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 332  
 Gly Arg Gly Arg Ala Trp Leu Cys Arg Arg Pro Val Gly Ser Trp Ile  
           1                  5                  10                  15

Gly Ala Val Trp Asn Asp Lys Pro Asp Lys Glu Thr Phe Lys Lys Pro  
                   20                  25                  30

Trp Gln Met Trp Thr Gln Ile His Cys Trp Asn Gly Tyr Arg Trp Asp  
           35                  40                  45

Xaa Xaa Asp Xaa Lys Asp  
           50

<210> 333  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 333  
 Ser Trp Ile Gly Ala Val Trp Asn Asp Lys Pro Asp Lys Glu Thr Phe  
           1                  5                  10                  15

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Lys Lys Pro Trp Gln Met Trp  
20

<210> 334  
<211> 30  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 334  
Lys Thr Met Ala Asp Val Asp Pro Asp Thr Leu Leu Glu Trp Leu Gln  
1 5 10 15

Met Gly Xaa Gly Arg Xaa Lys Gly His Ala Thr Asn Thr Pro  
20 25 30

<210> 335  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 335  
Arg Gly Val Asp Pro Ala Pro Leu Ala Lys His Gly Leu Thr Glu Glu  
1 5 10 15

Leu Leu Ser Arg Met Ala Ala Ala Gly Gly Thr Val Ser Gly Pro Ser  
20 25 30

Ser Ala

<210> 336  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 336  
Arg Ser Thr Thr Gly Ala Pro Ser Thr Thr Ala Asp Ser Lys Leu Ser  
1 5 10 15

Asn Gln Val Ser Thr Ile Val Ser Leu Leu Ser Thr Leu Cys Arg  
20 25 30

<210> 337







<210> 346  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 346  
 Ser Arg Arg Leu Xaa Asp Leu Ser Val Phe Arg Asp Arg Gly Phe Val  
           1                  5                  10                  15

Leu Tyr Ala Val Ala Ala Ser Val Met  
                   20                  25

<210> 347  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 347  
 Gln Ala Gln Ser Asp Cys Ser Cys Ser Thr Val Ser Pro Gly  
           1                  5                  10

<210> 348  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 348  
 Val Leu Ala Gly Ile Val Met Gly Asp Leu Val Leu Thr Val Leu Ile  
           1                  5                  10                  15

Ala Leu Ala Val Tyr Phe Leu Gly  
                   20

<210> 349  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 349  
 Val Pro Arg Gly Arg Gly Ala Ala Glu Ala Thr Arg Lys Gln Arg Ile  
           1                  5                  10                  15

Thr Glu Thr Glu Ser Pro Tyr Gln Glu Leu Gln Gly Gln Arg Ser Asp  
                   20                  25                  30

Val Tyr Ser Asp Leu  
                   35

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<210> 350  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 350  
 Glu Thr Glu Ser Pro Tyr Gln Glu Leu Gln Gly Gln Arg Ser Asp Val  
           1                  5                  10                  15  
 Tyr Ser Asp Leu Asn Thr  
                   20

<210> 351  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 351  
 Leu Val Cys Tyr Cys Ser Thr Lys Lys Glu Lys Lys Leu His Glu Ile  
           1                  5                  10                  15  
 Ala Ile Gln Gln Gly Gln Asn Trp Arg Trp Leu Leu Phe Tyr Lys Glu  
                   20                  25                  30  
 Ile Ser Val Pro Gly Phe Gln Ser Val Trp Cys Ser Tyr Lys Cys Leu  
                   35                  40                  45  
 Cys Val Val Trp Lys Ala Gly Glu Gly Gly  
           50                  55

<210> 352  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 352  
 Arg Arg Ser Cys Ser Gly Pro Pro Leu Val Asn Thr Ala Gly Lys Ile  
           1                  5                  10                  15  
 Leu Ser Ser Ser Pro Ala Lys Leu Ala Cys Lys Arg Thr Asp Phe His  
                   20                  25                  30  
 Ile Pro Ser Ile  
                   35

<210> 353  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 353  
 Arg Ala Ser Ile Leu Gly Ile Asp Asn Glu Arg Gly Cys His Phe Arg  
           1                  5                  10                  15

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156

His Phe Asn Pro Leu Lys Glu Tyr Lys Arg Lys Lys Lys Glu Asn Lys  
20 25 30

Ser Phe Arg Ile Val  
35

<210> 354

<211> 77

<212> PRT

<213> Homo sapiens

<400> 354

Ser Lys Asn Lys Thr Arg Gly Gly Asp Trp Cys Val Thr Val Leu Arg  
1 5 10 15

Lys Arg Arg Lys Ser Phe Met Lys Ser Pro Phe Ser Lys Asp Arg Thr  
20 25 30

Gly Asp Gly Phe Ser Phe Thr Lys Lys Ser Leu Ser Gln Ala Phe Ser  
35 40 45

Leu Phe Gly Val His Thr Ser Val Cys Val Leu Cys Gly Arg Arg Gly  
50 55 60

Lys Ala Gly Glu Gly Gly Pro Val Gln Gly Pro Leu Trp  
65 70 75

<210> 355

<211> 55

<212> PRT

<213> Homo sapiens

<400> 355

Met Lys Ser Pro Phe Ser Lys Asp Arg Thr Gly Asp Gly Phe Ser Phe  
1 5 10 15

Thr Lys Lys Ser Leu Ser Gln Ala Phe Ser Leu Phe Gly Val His Thr  
20 25 30

Ser Val Cys Val Leu Cys Gly Arg Arg Gly Lys Ala Gly Glu Gly Gly  
35 40 45

Pro Val Gln Gly Pro Leu Trp  
50 55

<210> 356

<211> 154

<212> PRT

<213> Homo sapiens

<400> 356

Met Gly Lys Arg Ala His Glu Val Arg Arg Pro Pro His Ser Arg Pro  
1 5 10 15

Leu His Gly Thr Pro Ala Gly Trp Val Leu Asp Pro Ser Gly Tyr Lys



157

20 25 30

Asp Val Thr Gln Asp Ala Glu Val Met Glu Val Leu Gln Asn Leu Tyr  
35 40 45

Arg Thr Lys Ser Phe Leu Phe Val Gly Cys Gly Glu Thr Leu Arg Asp  
50 55 60

Gln Ile Phe Gln Ala Leu Phe Leu Tyr Ser Val Pro Asn Lys Val Asp  
65 70 75 80

Leu Glu His Tyr Met Leu Val Leu Lys Glu Asn Glu Asp His Phe Phe  
85 90 95

Lys His Gln Ala Asp Met Leu Leu His Gly Ile Lys Val Val Ser Tyr  
100 105 110

Gly Asp Cys Phe Asp His Phe Pro Gly Tyr Val Gln Asp Leu Ala Thr  
115 120 125

Gln Ile Cys Lys Gln Gln Ser Pro Gly His Leu Tyr Ser Asn Ser Trp  
130 135 140

Ser Ala Thr Pro Asp Gly Arg Gly Gly Pro  
145 150

<210> 357  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 357  
Val Leu Asp Pro Ser Gly Tyr Lys Asp Val Thr Gln Asp Ala Glu Val  
1 5 10 15

Met Glu Val Leu Gln Asn Leu Tyr Arg Thr  
20 25

<210> 358  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 358  
Tyr Ser Val Pro Asn Lys Val Asp Leu Glu His Tyr Met Leu Val Leu  
1 5 10 15

Lys Glu Asn Glu Asp His Phe Phe Lys His  
20 25

<210> 359  
<211> 25  
<212> PRT  
<213> Homo sapiens





<212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 366  
 Pro Phe Leu Phe Cys Ala Ser Arg Ile Arg Xaa Gln Gly Ile Gly Ile  
   1                  5                  10                  15  
 His Gly Gln Val Ala Cys Ser Ala Val Arg Met Tyr Asn Asn Arg  
                   20                  25                  30

<210> 367  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<400> 367  
 Lys Cys Ile Tyr Pro Lys Pro Ala Arg Thr His His Cys Ser Ile Cys  
   1                  5                  10                  15  
 Asn Arg Cys Val Leu Lys Met Asp His His Cys Pro Trp Leu Asn Asn  
                   20                  25                  30  
 Cys Val Gly His Tyr Asn His Arg Tyr Phe Phe Ser Phe Cys Phe Phe  
                   35                  40                  45  
 Met Thr Leu Gly Cys Val Tyr Cys Ser Tyr Gly Ser Trp Asp Leu Phe  
   50                  55                  60  
 Arg Glu Ala Tyr Ala Ala Ile Glu Lys Met Lys Gln Leu Asp Lys Asn  
   65                  70                  75                  80  
 Lys Leu Gln Ala Val Ala Asn Gln Thr Tyr His Gln Thr Pro Pro Pro  
                   85                  90                  95  
 Thr Phe Ser Phe Arg Glu Arg  
                   100

<210> 368  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 368  
 Ala Arg Gly His Trp Asn Leu Ile Leu Ile Val Phe His Tyr Tyr Gln  
   1                  5                  10                  15  
 Ala Ile Thr Thr Pro Pro Gly Tyr Pro Pro Gln Gly Arg Asn Asp Ile  
                   20                  25                  30  
 Ala Thr Val Ser Ile Cys  
                   35

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<210> 369  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 369  
 Trp Gln Cys Glu Leu Asp Cys Val Ser His Asp Ser Ser Thr His Ser  
 1 5 10 15  
 Ala Pro Tyr Val Ile Ser Arg Ala Ser Lys Gly Ser Phe Ser Gln Asn  
 20 25 30

Pro

<210> 370  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<400> 370  
 Ser Lys Arg Ala Ser Gly Pro Ala Leu Gly Tyr His Ala Gly Gln Phe  
 1 5 10 15  
 Lys Asp Gln Pro Phe Tyr His Cys Arg Arg Lys Thr Gln Cys Gly Glu  
 20 25 30  
 Ile Leu Gly Leu Thr Ser Leu Tyr Ser Gly Lys Gln Lys Phe Gln Pro  
 35 40 45  
 Gln Thr Arg Gly Gln Ala Ala Ser Tyr Leu Pro Cys Pro Val Leu Thr  
 50 55 60  
 Arg Thr Ser Ser Arg Ile Gln His Trp Ser Trp Pro Pro Pro Leu Leu  
 65 70 75 80  
 Leu Ala Val

<210> 371  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 371  
 Glu Ser Leu Gln Leu Arg Leu Leu Gly Gln Leu Glu Gly Ile Pro Gly  
 1 5 10 15  
 Cys Gly Tyr Arg Lys Ala Leu Ala Tyr Ser Gly Ala Leu Thr Phe  
 20 25 30

<210> 372  
 <211> 66

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&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 372

Ser Leu Ala Pro Trp Glu Trp Asn Glu Leu Gly Ala Pro Ser Leu Gly  
 1 5 10 15

Asp Cys Ser Leu Ser Leu Cys Asp Gly Ser Val Ser Trp Thr Val Ser  
 20 25 30

Ala Thr Thr Arg Ala Leu Ile Leu Leu Pro Met Leu Phe Gln Gly Pro  
 35 40 45

Pro Arg Ala Ala Phe Leu Arg Ile Leu Asp Gln Lys Glu Pro Val Gly  
 50 55 60

Leu Pro  
 65

&lt;210&gt; 373

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 373

Leu Lys Cys Thr Ile Tyr Gly Gly Ala  
 1 5

&lt;210&gt; 374

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 374

Ala Ser Ile Asp Thr Trp Pro Gly Arg Arg Ser Gly Gly Met Ile Val  
 1 5 10 15

Ile Thr Ser Ile  
 20

&lt;210&gt; 375

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 375

Gly Ser Pro Gln Ala Glu Thr Arg Trp Ser Asp Pro Ile Ala Leu His  
 1 5 10 15

Gln Gly Lys Ser Pro Ala Ser Ile Asp Thr Trp Pro Gly Arg Arg Ser  
 20 25 30

Gly Gly Met Ile Val Ile Thr Ser Ile  
 35 40

<210> 376  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 376  
 Gly Ser Lys Gly Gln Glu Arg Lys Trp Arg Val Arg Met Gly Tyr Leu  
           1                  5                  10                  15

Asn

<210> 377  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 377  
 Gln Arg Tyr Arg Leu Leu Pro Leu Phe Cys Tyr Val Cys Ser Arg Lys  
           1                  5                  10                  15

Ile Lys Leu Asn Glu Asn Leu Phe Val Phe Ser Ala Tyr Ser Leu Ala  
                   20                  25                  30

Thr Leu Pro His Thr Tyr Leu Phe Ser Ile Val Glu Cys Ser Ser Phe  
           35                  40                  45

Cys Leu Ser Gly Thr Arg Asn  
           50                  55

<210> 378  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 378  
 Phe Ser Ala Tyr Ser Leu Ala Thr Leu Pro His Thr Tyr Leu Phe Ser  
           1                  5                  10                  15

Ile Val Glu Cys Ser Ser Phe Cys Leu Ser Gly  
           20                  25

<210> 379  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<400> 379  
 Met Thr Leu Asp Glu Trp Lys Asn Leu Gln Glu Gln Thr Arg Pro Lys  
           1                  5                  10                  15

Pro Glu Phe Asn Ile Arg Lys Pro Glu Ser Thr Val Pro Ser Lys Ala  
           20                  25                  30

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Val Val Ile Arg Glu Ser Lys Tyr Arg Asp Asp Met Val Lys Asp Asp  
           35                          40                          45

Tyr Glu Asp Asp Ser His Val Phe Arg Lys Pro Ala Asn Asp Ile Thr  
           50                          55                          60

Ser Gln Leu Glu Ile Asn Phe Gly Asn Leu Pro Arg Pro Gly Arg Gly  
           65                          70                          75                          80

Ala Arg Gly Gly Thr Arg Gly Gly Arg Gly Arg Ile Arg Arg Ala Glu  
                           85                          90                          95

Asn Tyr Gly Pro Arg Ala Glu Val Val Met Gln Asp Val Ala Pro Asn  
                           100                          105                          110

Pro Asp Asp Pro Glu Asp Phe Pro Ala Leu Ser  
           115                          120

<210> 380  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<400> 380  
 Cys Lys Met Leu Pro Pro Thr Gln Met Thr Arg Lys Ile Ser Leu Arg  
       1                          5                          10                          15

Cys Leu Glu Arg Ala Leu Phe Pro Ser Thr Ala Glu Leu His Cys Thr  
                           20                          25                          30

Pro Val Gly Arg Leu Phe Gln Leu Gly Gln Gly Ser Gln Thr Leu Arg  
           35                          40                          45

Thr Ile Asp Val Ala Phe Pro Val Ser Cys Lys Phe Val Ala Leu Phe  
           50                          55                          60

Trp Ala Glu Leu Leu Glu Gly Leu Leu Gln Arg Leu Glu Ser Arg Pro  
           65                          70                          75                          80

Phe Pro Lys Lys Met Lys Asn Gly Asp Cys Val Phe Ile Glu Gly Ile  
                           85                          90                          95

Ser Asn Glu Glu  
           100

<210> 381  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 381  
 Pro Pro Ser Ser Trp Ala Trp Ser Gln Arg Arg His Pro Gly Arg Pro  
       1                          5                          10                          15

Gly Lys Asp Gln Glu Gly Arg Glu Leu Trp Thr Gln Ser Arg Ser Gly  
           20                          25                          30

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<210> 386  
 <211> 255  
 <212> PRT  
 <213> Homo sapiens

<400> 386

Lys	Ile	Pro	Ser	Ala	Asn	Arg	Arg	Ala	Thr	Arg	Cys	Leu	Gly	Cys	Asp
1				5					10					15	
His	Gln	Asn	Phe	Val	Lys	Val	Arg	Asn	Lys	His	Lys	Gly	Lys	Pro	Thr
			20					25					30		
Phe	Met	Glu	Glu	Val	Leu	Glu	His	Leu	Pro	Gly	Lys	Thr	Gln	Asp	Glu
		35					40					45			
Val	Gln	Gln	His	Glu	Lys	Trp	Tyr	Gln	Lys	Phe	Leu	Ala	Leu	Glu	Glu
	50					55					60				
Arg	Lys	Lys	Glu	Ser	Ile	Gln	Ile	Trp	Lys	Thr	Lys	Lys	Gln	Gln	Lys
65					70					75					80
Arg	Glu	Glu	Ile	Phe	Lys	Leu	Lys	Glu	Lys	Ala	Asp	Asn	Thr	Pro	Val
				85					90					95	
Leu	Phe	His	Asn	Lys	Gln	Glu	Asp	Asn	Gln	Lys	Gln	Lys	Glu	Glu	Gln
			100					105					110		
Arg	Lys	Lys	Gln	Lys	Leu	Ala	Val	Glu	Ala	Trp	Lys	Lys	Gln	Lys	Ser
		115					120						125		
Ile	Glu	Met	Ser	Met	Lys	Cys	Ala	Ser	Gln	Leu	Lys	Lys	Lys	Lys	Lys
130						135					140				
Lys	Lys	Lys	Lys	Asn	Gln	Lys	Glu	Arg	Gln	Arg	Gln	Phe	Lys	Leu	Lys
145					150					155					160
Leu	Leu	Leu	Glu	Ser	Tyr	Thr	Gln	Gln	Lys	Lys	Glu	Gln	Glu	Glu	Phe
				165					170					175	
Leu	Arg	Leu	Glu	Lys	Glu	Ile	Arg	Glu	Lys	Ala	Glu	Lys	Ala	Glu	Lys
			180					185					190		
Arg	Lys	Asn	Ala	Ala	Asp	Glu	Ile	Ser	Arg	Phe	Gln	Glu	Arg	Asp	Leu
		195					200					205			
His	Lys	Leu	Glu	Leu	Lys	Ile	Leu	Asp	Arg	Gln	Ala	Lys	Glu	Asp	Glu
210						215					220				
Lys	Ser	Gln	Lys	Gln	Arg	Arg	Leu	Ala	Lys	Leu	Lys	Glu	Lys	Val	Glu
225					230					235					240
Asn	Asn	Val	Ser	Arg	Asp	Pro	Ser	Arg	Leu	Tyr	Lys	Pro	Thr	Lys	
				245					250					255	

<210> 387  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 387

Val Lys Val Arg Asn Lys His Lys Gly Lys Pro Thr Phe Met Glu Glu  
 1 5 10 15

Val Leu Glu His Leu Pro Gly Lys  
 20

&lt;210&gt; 388

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 388

Gln His Glu Lys Trp Tyr Gln Lys Phe Leu Ala Leu Glu Glu Arg Lys  
 1 5 10 15

Lys Glu Ser Ile Gln Ile Trp  
 20

&lt;210&gt; 389

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 389

Phe Lys Leu Lys Glu Lys Ala Asp Asn Thr Pro Val Leu Phe His Asn  
 1 5 10 15

Lys Gln Glu Asp Asn Gln Lys Gln Lys Glu Glu Gln Arg Lys Lys  
 20 25 30

&lt;210&gt; 390

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 390

Phe Leu Arg Leu Glu Lys Glu Ile Arg Glu Lys Ala Glu Lys Ala Glu  
 1 5 10 15

Lys Arg Lys Asn Ala Ala Asp Glu Ile Ser Arg Phe Gln Glu Arg Asp  
 20 25 30

Leu His Lys Leu  
 35

&lt;210&gt; 391

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 391

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<210> 402  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 402  
 Thr Leu Val Ala Gly Ser Pro Cys Ser Leu Ser Arg Trp Ile Met Ala  
 1 5 10 15  
 Gly Phe Cys His Gly Glu Leu Val Gln Ser Asp Met Glu Ser Gln Glu  
 20 25 30  
 Trp Glu Arg Gly Gln Val Val Leu Ser His Thr Ser Leu Pro Trp Cys  
 35 40 45  
 Tyr Val Ser Pro Arg  
 50

<210> 403  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 403  
 Met Ala Gly Phe Cys His Gly Glu Leu Val Gln Ser Asp Met Glu Ser  
 1 5 10 15  
 Gln Glu Trp Glu Arg Gly Gln Val Val Leu Ser His Thr Ser Leu Pro  
 20 25 30  
 Trp Cys Tyr Val Ser Pro Arg  
 35

<210> 404  
 <211> 94  
 <212> PRT  
 <213> Homo sapiens

<400> 404  
 Met Ala Val Trp Ile Ser Gly Ser Tyr Ser Ser Phe Cys Ser Arg Ser  
 1 5 10 15  
 Asn Trp Asp Val Phe Ser Pro Asn Ile Val Leu Ala Ser Leu Pro Phe  
 20 25 30  
 Ser Phe Arg Ser Val Ser Lys Ala Ala Lys Pro Trp Trp Leu Ala Leu  
 35 40 45  
 Pro Ala Leu Phe Pro Asp Gly Leu Trp Leu Asp Ser Ala Met Gly Ser  
 50 55 60  
 Leu Tyr Ser Gln Thr Trp Lys Ala Arg Asn Gly Lys Glu Val Arg Trp  
 65 70 75 80  
 Phe Ser Pro Thr Pro His Cys Leu Gly Ala Met Ser His Leu  
 85 90





Arg His Pro Lys Arg Ser Val Ser Leu Ser  
85 90

<210> 409  
<211> 40  
<212> PRT  
<213> Homo sapiens

<400> 409  
Gly Ile Leu Leu Thr Leu Tyr Pro Phe Trp Pro Glu Asp Ile Leu Glu  
1 5 10 15  
Phe Pro Asn Arg Val Tyr Cys Cys Leu Glu Ile Cys Lys Gly Phe Phe  
20 25 30  
Ser Ala Asn Ala Thr Ser Arg Leu  
35 40

<210> 410  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 410  
Glu Phe Gly Thr Arg Asp Arg Val Val Pro Glu Ala Val Leu Thr Val  
1 5 10 15  
Thr Ala Leu Arg His Lys Lys Met Gly Arg Ser Cys Leu Met Trp Lys  
20 25 30  
Cys Thr Pro Ala Gly Thr Ile Ala Leu Ser Gln Lys Lys Lys Leu  
35 40 45

<210> 411  
<211> 52  
<212> PRT  
<213> Homo sapiens

<400> 411  
Ala His Pro Leu Pro Ala Pro Thr Glu Gly Lys Glu Lys Pro Leu Glu  
1 5 10 15  
Met Arg Val Thr Cys Glu Val Val Tyr Cys His Ser Ser Leu Phe Glu  
20 25 30  
Leu Glu Thr Ile Val Ser Met Thr Gln Pro Thr Thr Leu Phe Leu His  
35 40 45  
Ile Gln Phe Gln  
50

<210> 412

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&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 419

His	Gly	Asp	Trp	Ile	Tyr	Val	His	Ile	Val	Glu	Gln	Leu	Asn	Gln	Ala
1				5					10					15	

Asn	Asn	Lys	Ser	Val	Thr	Ser	His	Thr	Tyr	Phe	Val	Val	Lys	Thr	Cys
			20					25					30		

Lys	Ile	His	Ser	Leu	Ser	Asn	Phe	Gln	Ala	Ser	Asn	Thr	Leu	Leu	Xaa
		35					40					45			

Thr	Val	Val	Thr	Met	Leu	Tyr	Asn	Arg	Ser	Leu	Glu	Leu	Ile	Leu	Pro
	50					55					60				

Val

65

&lt;210&gt; 420

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 420

Thr	Tyr	Ser	Ser	Cys	Leu	Thr	Lys	Ile	Leu	Tyr	Ser	Leu	Ile	Asn	Ile
1				5					10					15	

Tyr	Pro	Ile	Pro	His	Cys	Ser	Pro	Ala	Xaa	Ile	Thr	Thr	Ile	Leu	Leu
			20					25					30		

Ser	Ala	Ser	Met	Asn	Leu	Thr	Phe	Phe	Phe	Phe	Arg	Phe	His	Ile	Cys
		35					40					45			

Glu	Ile	Ala	Gln	Tyr	Leu	Ser	Phe	Cys	Ala	Trp	Leu	Ile	Ser	Leu	Asn
	50					55					60				

Ile Lys Ser Leu

65

&lt;210&gt; 421

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 421

Met	Asn	Leu	Thr	Phe	Phe	Phe	Phe	Arg	Phe	His	Ile	Cys	Glu	Ile	Ala
1				5				10					15		

Gln	Tyr	Leu	Ser	Phe	Cys	Ala	Trp	Leu	Ile	Ser	Leu	Asn	Ile	Lys	Ser
			20					25					30		

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Leu

<210> 422  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<400> 422  
 Arg Ser Lys Arg Gln Ser Gln Gly Ser Arg Cys Ser Val Pro Leu Leu  
   1                  5                  10                  15  
 Ala Gln Gln Ser Arg Ser Pro Pro Val Pro Leu Gln Ala Gln Pro Ala  
                   20                  25                  30  
 Trp Leu Leu Gly Ser Glu Thr Ile Ala Trp Ser Gly Gly Gly Ser Gly  
           35                  40                  45  
 Trp Glu Gly Pro Arg Asp Pro Gly Thr Ser Thr Ala Ala Gly Asn Ser  
   50                  55                  60  
 Gly Pro Gly Ile Gly Met Gly His Arg Thr Pro Pro Ser His Thr  
   65                  70                  75                  80  
 Gly Arg

<210> 423  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 423  
 Arg Trp Asp Pro Ala Trp Gly Leu Asp Ile Pro Glu Ser Ser Cys Pro  
   1                  5                  10                  15  
 Val Thr Met Gly Glu Leu Arg Ser Gly Asp Gly Ile Val Leu  
           20                  25                  30

<210> 424  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 424  
 Gly Ala Leu Leu Trp Asp Asn Ser Met Ile Ser Ala Pro Arg Gly Ser  
   1                  5                  10                  15  
 His Arg Glu Ala Gly Ala Leu Phe Pro Ser Trp Leu Ser Asn Pro Ala  
           20                  25                  30  
 Val Leu Pro Ser Arg Ser Arg Pro Ser Gln Pro Gly Cys Leu Asp Pro  
   35                  40                  45  
 Arg Gln

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 FOOTNOT 822E2660



<210> 428  
 <211> 95  
 <212> PRT  
 <213> Homo sapiens

<400> 428  
 Leu Ala Leu Gln Glu Ala Val Thr Gly Lys Gln Val Leu Cys Ser Pro  
   1                  5                  10                  15  
 Pro Gly Ser Ala Ile Pro Gln Ser Ser Arg Pro Ala Pro Gly Pro Ala  
                   20                  25                  30  
 Ser Leu Ala Ala Trp Ile Arg Asp Asn Ser Leu Val Trp Arg Arg Leu  
           35                  40                  45  
 Arg Val Gly Gly Thr Gln Gly Pro Gly His Gln Tyr Ser Ser Trp Glu  
       50                  55                  60  
 Phe Arg Pro Arg Asp Arg Asp Gly Ala Gln Asp Thr Thr Pro Ile Ser  
   65                  70                  75                  80  
 His Arg Glu Met Lys Val Gly Ser Ser Met Gly Thr Gly His Pro  
                   85                  90                  95

<210> 429  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 429  
 Met Ala Gly Arg Leu Phe Thr Leu Leu Leu Trp Gln Glu Leu Ala Arg  
   1                  5                  10                  15  
 Arg Leu Val Pro Gly Asp Ala Ser Pro Arg Leu Ser Arg Lys Arg Ser  
                   20                  25                  30  
 Val Thr Pro Gly Pro Pro Phe Pro Thr Leu Thr Val Pro Ser Glu  
       35                  40                  45

<210> 430  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 430  
 Val Trp Leu Leu Ser Ser Ile Leu Leu Arg Val Leu Trp Asn Arg Tyr  
   1                  5                  10                  15  
 Thr Leu Gln Glu Leu Ser Phe Trp Leu Pro Trp Phe Ala Ser Arg Ala  
           20                  25                  30  
 Thr Ser Leu Val Leu Gln His Gly Asp Asn Tyr Leu Leu Phe Leu Phe  
       35                  40                  45  
 Cys Phe Val Cys Phe Val Leu Ala Met Pro Phe  
   50                  55

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<210> 431  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 431  
 Ile Arg His Glu Val Ser Met Ala Phe Val Phe His Leu Ala Gln Gly  
 1 5 10 15  
 Thr Leu Glu Pro Leu Tyr Ile Ala Gly Ala  
 20 25

<210> 432  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 432  
 Asn Ser Ala Arg Gly Glu Tyr Gly Phe Cys Leu Pro Ser Cys Ser Gly  
 1 5 10 15  
 Tyr Phe Gly Thr Ala Ile His Cys Arg Ser Leu Ala Ser Gly Tyr His  
 20 25 30  
 Gly Leu Leu Pro Glu Gln Gln Ala  
 35 40

<210> 433  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 433  
 His Glu Leu Thr Val Pro Ser Arg Met Gly Ser Lys Gly Lys Pro Tyr  
 1 5 10 15  
 Pro Cys Gly Phe Tyr Ser Ser Leu Ile Pro  
 20 25

<210> 434  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 434  
 Gly Thr Glu Ser Pro Met Val Met Cys Cys Arg Glu Val Ser Gln Ser  
 1 5 10 15  
 Glu Asn Cys Leu Phe Leu Asp Thr Thr Phe Arg Phe Ile Phe Gly Lys  
 20 25 30  
 Thr Phe Thr Asn His Asp Tyr Ile Ser Ile His Phe Tyr Phe Leu Lys  
 35 40 45

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<210> 439  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<400> 439  
 His Lys Cys Phe Gln Cys Phe Ile Leu Ala Asn Gly Phe Leu Lys Val  
   1                  5                  10                  15  
 Ile Lys Pro Phe Gln Arg Asn Trp Ser Asp Lys Thr Phe Phe Leu Val  
                   20                  25                  30  
 Cys Leu Asn Lys Ala Ile Ser Glu Ala Leu Leu Ser Lys Met Thr Phe  
                   35                  40                  45  
 Leu Ser Phe Phe Lys Thr Asn Leu Leu Leu Leu Glu Thr Phe Cys Thr  
           50                  55                  60  
 Ile  
   65

<210> 440  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 440  
 Leu Leu Gly Val Leu Lys Pro Leu Tyr Phe Ser Val Glu Pro Val Leu  
   1                  5                  10                  15  
 Gly Glu Arg Ser Val Ala Phe Glu Glu Val Arg Glu Lys Asn His Gly  
                   20                  25                  30  
 Thr Ser Gly Phe Leu Ser Leu Tyr Ser Leu Ala Ala Ile Val Cys Gly  
           35                  40                  45  
 His Leu Met Phe Phe His Thr Leu Leu Gly Arg Gly Gly Asn Asp His  
           50                  55                  60  
 Pro Gly Gln Ser Pro Leu Pro Gly Met Arg Pro Leu Arg Gly Gly Leu  
   65                  70                  75                  80  
 Ala Gly Gln Ala Pro Ser Gly His Pro Trp Met Gln Pro Leu Asp Thr  
                   85                  90                  95  
 Cys Leu Leu

<210> 441  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 441  
 Arg Pro Thr Arg Pro Pro Thr Arg Pro Asp Arg Pro Ser Leu Glu Leu  
   1                  5                  10                  15

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Ala Pro Gly Leu Cys Ala Asp Phe Leu Gly Ser Ser Asn His Cys Ile  
                   20                                  25                                  30

Phe Leu Leu Ser Leu Tyr Leu Gly Arg Asp Gln  
                   35                                  40

<210> 442

<211> 49

<212> PRT

<213> Homo sapiens

<400> 442

Glu Lys Arg Ile Met Val Pro Gln Gly Phe Phe Pro Phe Thr Arg Trp  
   1                                  5                                  10                                  15

Gln Pro Leu Ser Val Gly Thr Ser Cys Phe Ser Thr Leu Tyr Trp Ala  
                   20                                  25                                  30

Val Glu Val Thr Ile Thr Gln Ala Ser Leu Leu Cys Leu Gly Cys Ala  
                   35                                  40                                  45

Leu

<210> 443

<211> 30

<212> PRT

<213> Homo sapiens

<400> 443

Asn Ser Ala Arg Val Thr Gln Lys Gly Glu Ser Val Gly Ser Val Gly  
   1                                  5                                  10                                  15

Cys Met Arg Ala Ile Ala Gly Phe Asp Asn Tyr Pro Leu Phe  
                   20                                  25                                  30

<210> 444

<211> 33

<212> PRT

<213> Homo sapiens

<400> 444

Gly Thr Ile Gly Ile Phe Trp Pro Leu Pro Val Ala Ile Leu Ser Ser  
   1                                  5                                  10                                  15

Gly Asp Tyr Leu Gln Thr Gln Ile His Arg Pro Leu Leu His Arg Gly  
                   20                                  25                                  30

Thr

<210> 445

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<211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 445  
 Leu Pro Leu Pro Leu Ser Ser Leu Leu His Ile Ala Thr Cys Asn Pro  
   1                  5                  10                  15  
 Phe Pro Lys Thr  
                   20

<210> 446  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 446  
 Ser Tyr Phe Phe Val Tyr Asn Leu Ile Leu Lys Ile Ile Gln Gly Asp  
   1                  5                  10                  15  
 His Ala Ser Ile Ile Leu Leu Ala Thr Ile Pro Ile Phe Gly Asp Ile  
                   20                  25                  30  
 Tyr Tyr Val Lys Gly Gln Leu Ala Ser Phe Gly Pro Tyr Leu  
                   35                  40                  45

<210> 447  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 447  
 Leu Phe Tyr His Leu Glu Ile Ile Ser Arg His Lys Ser Ile Ala His  
   1                  5                  10                  15  
 Cys Ser Ile Glu Ala  
                   20

<210> 448  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 448  
 Cys Ser Cys His Cys Pro Ser Arg Ala Phe Ser Thr  
   1                  5                  10

<210> 449  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 449

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Ser Ser Arg Ile Trp Gly Asn Val Ser Glu Ala Pro Gly Met  
 50 55 60

<210> 454  
 <211> 87  
 <212> PRT  
 <213> Homo sapiens

<400> 454  
 Val Pro Tyr His Ile Ala Gly Thr Leu Pro His Cys Cys Ser Leu Pro  
 1 5 10 15  
 Val Gly Tyr Gly Gly Met Ser Val Arg Leu Gln Gly Cys Arg Tyr Val  
 20 25 30  
 Gly Asn Val Gly Pro Gln Gly Asn Met Gln Ser Gly Arg Ser Trp Ala  
 35 40 45  
 Leu Lys Met Val Leu Leu Cys Asn Ser Cys Leu Gly Leu Gly Val Gly  
 50 55 60  
 Ser Val Gly Pro Ser Met Ser Ser Leu Phe Gly Ala Val Leu Ser Glu  
 65 70 75 80  
 Thr Pro Gly Ser Ser Val Tyr  
 85

<210> 455  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 455  
 Met Leu Asp Pro Arg Ala Thr Cys Asn Leu Val Gly Val Gly Leu Ser  
 1 5 10 15  
 Lys Trp Cys Cys Cys Val Thr Ala Ala Trp Val Leu Gly  
 20 25

<210> 456  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 456  
 Pro Gln Ile Lys Leu Leu Asn Ser Asp Ala Leu Gly Met Arg Thr Thr  
 1 5 10 15  
 Ser Xaa Asp Leu Val Pro Cys Asn Gln Cys Phe Ile Pro Leu Pro Pro

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	20		25		30										
Ser	Cys	Asn	Arg	Ile	Ala	Ser	Arg	Lys	Ala	Val	Asn	Trp	Lys	Gln	Gln
	35						40					45			
Arg	Leu	Pro	Ala	Val	Arg	Gly	Leu	Leu	Asn	Asn	Ala	Pro	His	Arg	Arg
	50					55					60				
Pro	Pro	Thr	Pro	Arg	Thr	Pro	Cys	Val	Phe	Pro	Ser	Glu	Gly	Pro	Lys
	65				70					75					80
Gly	Tyr	Gly	Phe	His	Val										
				85											

<210> 457  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 457  
 Glu Gln Leu Ala Xaa Ile Ser Cys Arg Val Ile Asn Val Ser Phe Arg  
 1 5 10 15

Cys Leu His His Val Ile Glu Ser Leu Pro Glu Arg Gln Leu Thr Gly  
 20 25 30

Ser Ser Arg Gly Ser Gln Pro  
 35

<210> 458  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 458  
 Glu Asp Cys Ser Thr Met Pro Pro Ile Ala Ala Pro Pro Pro Leu Ala  
 1 5 10 15

Pro Leu Val Phe Ser Pro Leu Arg Gly Pro Arg Val Met Ala Phe Met  
 20 25 30

Ser Arg Cys Gly Asp Arg Gly Gly Arg Gly Arg Ser Xaa Ala Gly Arg  
 35 40 45

Gly Trp Pro Trp Ser Glu Ser Gly Val Ile Asn Ala His Pro Lys Lys  
 50 55 60

Arg Pro Cys Pro Gly Pro Met Leu Ser  
65 70

<210> 459  
<211> 48  
<212> PRT  
<213> Homo sapiens

<400> 459  
Glu Phe Gly Thr Arg Arg Gln Trp Gly Thr Arg Cys Phe Pro Pro Leu  
1 5 10 15  
Val Gly Arg Lys Gln Ser Ala Leu Arg Arg Arg Glu Gly Lys Ala Arg  
20 25 30  
Ala Gly Arg Cys Cys Gly Lys Arg Ser Val Lys Ala Gly Phe Asp Ala  
35 40 45

<210> 460  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 460  
Pro Lys Val Leu Ala Val Leu Lys Lys Lys Asn His Val Ala Leu Ser  
1 5 10 15  
Ile Phe Glu Leu Leu Ser Asn Asp Ile Cys Ser Phe Ile Ser Phe Phe  
20 25 30

Met Ser

<210> 461  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 461  
Glu Gly Pro Asp Ile Asn Ser Asn Leu Lys Phe Leu Leu Cys Leu Lys  
1 5 10 15  
Lys Lys Ile Met Trp Pro Phe Gln Tyr Leu Asn Cys  
20 25

<210> 462  
<211> 47  
<212> PRT  
<213> Homo sapiens

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&lt;400&gt; 462

Leu Leu Ser Leu Ile Leu Leu Arg Ile Trp Tyr Asp Phe Ser Lys Gln  
 1 5 10 15

Thr Val Phe Trp Phe Phe Leu Asn Val Phe Asn Phe Phe Ser Ser Cys  
 20 25 30

Asn Asn Asp Gly Ala Cys Ser Tyr Lys Tyr Arg Lys Val Gln Ile  
 35 40 45

&lt;210&gt; 463

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 463

Arg Lys Leu Phe His Lys Ile Asn Ser Lys Ser Phe His Leu Ser Gly  
 1 5 10 15

Met His Ile Leu Ile Ser Val Trp Ile Val Arg Ser Arg Ile Ile Lys  
 20 25 30

Val Lys Tyr Glu Leu Leu Leu Cys Phe Phe Asp Val Ile Phe Tyr Val  
 35 40 45

&lt;210&gt; 464

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 464

Asn Ser Ala Arg Asp Val Phe Phe Thr Gln Lys Ile Leu Tyr Ser Gln  
 1 5 10 15

Thr Cys Ile Phe Phe Pro Cys Leu Val Pro Phe Ser Phe Leu Phe Ser  
 20 25 30

Phe Phe Phe Phe Leu Ser Phe Val Gly  
 35 40

&lt;210&gt; 465

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 465

Met Phe Ser Ser Leu Lys Lys Phe Tyr Ile Leu Lys His Val Tyr Ser  
 1 5 10 15

Phe Pro Val Leu Phe His Phe Leu Phe Phe Phe Leu Phe Ser Phe Ser  
 20 25 30

190

Phe Leu Ser Trp Ala Glu Lys Gly Ala Gly Lys Met Lys Leu Ala Thr  
35 40 45

Glu Asn Cys Lys Met Val Lys Ser  
50 55

<210> 466

<211> 39

<212> PRT

<213> Homo sapiens

<400> 466

Ile Gln Leu Leu Tyr Leu Lys Gly Ala Ala Met Lys Tyr Leu Ser Tyr  
1 5 10 15

Val Ala Arg Leu Leu Phe Leu Lys Ala Leu Asp Leu Phe Ala Pro Lys  
20 25 30

Met Val Gln Ile Asp Ser Phe  
35

<210> 467

<211> 65

<212> PRT

<213> Homo sapiens

<400> 467

Val Asp Pro Arg Val Arg Arg Phe Trp Glu Asp Pro Glu Tyr Pro Pro  
1 5 10 15

Val Ala Val Met Ser Arg Leu Met Leu Arg Arg Ile Pro Thr Val Met  
20 25 30

Ser Asn Thr His Arg Thr Gln Pro Ser Thr Trp Glu Gln Ile Lys Lys  
35 40 45

Leu Ser Gln Met Val Gly Glu Asn Leu Arg Lys Ala Gly Gln Pro Val  
50 55 60

Thr  
65

<210> 468

<211> 25

<212> PRT

<213> Homo sapiens

<400> 468

Val Arg Arg Phe Trp Glu Asp Pro Glu Tyr Pro Pro Val Ala Val Met  
1 5 10 15

Ser Arg Leu Met Leu Arg Arg Ile Pro  
20 25

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<210> 472  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 472  
 Arg Ile Lys Lys His Leu Glu Gly His Ser Ala Asn Leu Ser Leu Asp  
           1                  5                  10                  15  
 Ile Ala Lys Tyr Ile Tyr Ile Phe Lys Ala Ser Gln Ala His Leu Thr  
                   20                  25                  30

<210> 473  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 473  
 Val Phe Leu Gln Gln Gly Leu Thr Gln Arg Ser Val Ile Leu Ile Gly  
           1                  5                  10                  15  
 His Ile Cys Gln Phe Trp Leu Ala Ile Met Pro Gly Tyr Asn His Phe  
                   20                  25                  30  
 Met Thr Gln Leu His Met Leu Ser Gly Leu Asn Ile Tyr His Asn Lys  
           35                  40                  45  
 Ser Ala Pro Ile Ile Glu Ala Tyr His Pro Gln Lys Ser Ile Cys Lys  
           50                  55                  60  
 Gln Asn  
   65

<210> 474  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 474  
 Ile Gly His Ile Cys Gln Phe Trp Leu Ala Ile Met Pro Gly Tyr Asn  
           1                  5                  10                  15  
 His Phe Met Thr Gln Leu His Met Leu Ser Gly Leu  
                   20                  25

<210> 475  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 475  
 Ser Ile Pro Gly Thr Pro Asp Leu Asn Ala Arg Thr Gly Val Leu Glu

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193

1                      5                      10                      15  
Gly Ala Ala Asp Arg Leu Ala Ala Ser Asn Pro Leu Lys Trp Ile Lys  
                    20                      25                      30  
Thr Leu Arg Ser Ser Val Ile Ser Met Met Ile Val Leu Leu Ile Cys  
                    35                      40                      45  
Val Val Cys Leu Tyr Ile Val Cys Arg Cys  
                    50                      55

<210> 476  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 476  
Val Leu Glu Gly Ala Ala Asp Arg Leu Ala Ala Ser Asn Pro Leu Lys  
1                      5                      10                      15  
Trp Ile Lys Thr Leu Arg Ser Ser Val Ile Ser  
                    20                      25

<210> 477  
<211> 75  
<212> PRT  
<213> Homo sapiens

<400> 477  
Leu Thr Val Thr Lys Leu Pro Trp Leu Phe Ile Ala Leu Gln Asn Lys  
1                      5                      10                      15  
Arg Met Gly Thr Ser Trp Glu Gln Ala Pro Lys Ser Gly His Lys Leu  
                    20                      25                      30  
Ala Pro Lys Leu Val Ile Asn Lys Ile Ser Ala Ala Leu Ser His Ala  
                    35                      40                      45  
Cys Asp Ser Leu Thr Pro Thr Leu Glu Gly Cys Arg Phe Thr Gly Met  
                    50                      55                      60  
Arg Ala Arg Asn Asn Trp Pro Thr Gln Gly Gly  
65                      70                      75

<210> 478  
<211> 29  
<212> PRT  
<213> Homo sapiens

<400> 478  
Met Gly Thr Ser Trp Glu Gln Ala Pro Lys Ser Gly His Lys Leu Ala  
1                      5                      10                      15  
Pro Lys Leu Val Ile Asn Lys Ile Ser Ala Ala Leu Ser  
                    20                      25



195  
1 5 10

<210> 483  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 483  
Ser Pro Leu Leu Phe Asn Ile Leu Leu Glu Val Leu Ser Ser Ala Val  
1 5 10 15  
Arg Lys Glu Lys Glu Leu Lys  
20

<210> 484  
<211> 86  
<212> PRT  
<213> Homo sapiens

<400> 484  
Leu Cys Ala Val Glu Lys Thr Arg Thr Phe Thr Arg Gly Asp Cys Gly  
1 5 10 15  
Pro Asn Arg His His Lys His Val Leu Lys Ala Lys Asp Asn Asn His  
20 25 30  
Ile Gln Arg His Gln Phe Ser Ser Thr Leu Glu Phe Ser Ser Asn Ser  
35 40 45  
Thr Asp Gly Leu Lys Tyr Ile Cys Val Tyr Leu Tyr Val Cys Thr His  
50 55 60  
Pro Cys Ile Tyr Ile Tyr Leu Ser Ala His Thr Leu His Met Tyr Thr  
65 70 75 80  
His Tyr Leu Cys Lys Ile  
85

<210> 485  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 485  
Ser Ser Thr Leu Glu Phe Ser Ser Asn Ser Thr Asp Gly Leu Lys Tyr  
1 5 10 15  
Ile Cys Val Tyr Leu Tyr Val Cys Thr His Pro Cys Ile Tyr  
20 25 30

<210> 486  
<211> 69  
<212> PRT

<213> Homo sapiens

<400> 486

Ser Thr Ser Val Cys Ile Cys Thr Cys Ala His Thr His Val Tyr Ile  
1 5 10 15

Phe Ile Tyr Leu His Thr His Tyr Ile Cys Ile His Thr Ile Tyr Val  
20 25 30

Lys Tyr Asn Ile Cys Ile Met His Ile Asn Ser Asn Lys Cys Ile Cys  
35 40 45

Val Ile Phe Lys Ile Glu Gln Leu Tyr Leu Glu Val Val Asn Ala Glu  
50 55 60

Asn Trp Phe Tyr Cys  
65

<210> 487

<211> 31

<212> PRT

<213> Homo sapiens

<400> 487

Ile His Thr Ile Tyr Val Lys Tyr Asn Ile Cys Ile Met His Ile Asn  
1 5 10 15

Ser Asn Lys Cys Ile Cys Val Ile Phe Lys Ile Glu Gln Leu Tyr  
20 25 30

<210> 488

<211> 9

<212> PRT

<213> Homo sapiens

<400> 488

Asn Ser Ala Val Thr Val Gln Met Ala  
1 5

<210> 489

<211> 24

<212> PRT

<213> Homo sapiens

<400> 489

Lys Tyr Leu Val Ser Ser Val Leu Pro Thr Ile Ser Met Ala Arg Ser  
1 5 10 15

Leu Ile Ser Ala Leu Arg Ser Gly  
20

<210> 490

<211> 43





<210> 494  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 494  
 Ser Val Ser Glu Val Lys Ala Val Ala Glu Met Gln Phe Gly Glu Leu  
     1                    5                    10                    15  
 Leu Ala Ala Val Arg Lys Ala Gln Ala Asn Val Met Leu Phe Leu Xaa  
                     20                    25                    30  
 Glu Lys Glu Gln Ala Ala Leu  
                     35

<210> 495  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 495  
 Glu Lys Ser Lys Gln Glu Leu Glu Thr Met Ala Ala Ile Ser Asn Thr  
     1                    5                    10                    15  
 Val Gln Phe Leu Glu Glu Tyr Cys Lys Phe Lys Asn Thr Glu Asp Ile  
                     20                    25                    30  
 Thr Phe Pro Ser Val Tyr Ile Gly Leu Lys Asp  
                     35                    40

<210> 496  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 496  
 Leu Glu Asn Tyr Lys Lys Lys Leu Gln Glu Phe Ser Lys Glu Glu Glu  
     1                    5                    10                    15  
 Tyr Asp Ile Arg Thr Gln Val Ser Ala Xaa Val Gln Arg  
                     20                    25

<210> 497  
 <211> 38

TOP SECRET



Ala Cys Lys Phe Ser Glu Pro Val Tyr Ala Ala Phe Trp Leu  
                   20                                  25                                  30

<210> 501  
 <211> 337  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (150)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (151)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (177)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (200)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (278)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (284)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 501  
 Ala Glu Leu Gln Cys Thr Gln Leu Asp Leu Glu Arg Lys Leu Lys Leu  
   1                                  5                                  10                                  15

Asn Glu Asn Ala Ile Ser Arg Leu Gln Ala Asn Gln Lys Ser Val Leu  
                   20                                  25                                  30

Val Ser Val Ser Glu Val Lys Ala Val Ala Glu Met Gln Phe Gly Glu  
                   35                                  40                                  45

Leu Leu Ala Ala Val Arg Lys Ala Gln Ala Asn Val Met Leu Phe Leu  
   50                                  55                                  60

Xaa Glu Lys Glu Gln Ala Ala Leu Ser Gln Ala Asn Gly Ile Lys Ala  
   65                                  70                                  75                                  80

FOOT" B22E2660

**TOP SECRET**

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<210> 502
<211> 301
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (166)
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

$\langle 222 \rangle$  (172)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

&lt;221&gt; SITE

$\langle 222 \rangle$      $(250)$

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (299)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

<221> SITE

 $\langle 222 \rangle$  (300)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 502

Arg Thr Ala Pro Tyr Gly Ala Lys Glu Ser Ser Trp Arg Met Phe Ser  
1 5 10 15

Phe Arg Asp Pro Ile Gly Phe Gln Lys Pro Ala Thr Ile Ser Ser Tyr  
20 25 30

Phe Cys Pro Gln Ile Thr Leu Lys Cys Lys Ser His His Cys Ser Trp  
35 40 45

Gln Arg Ser Gly Ile Trp Leu Leu Glu Ser Arg Glu Gln Ser Pro Pro  
50 55 60

Arg Thr Val Leu Ala Ser Arg Val Pro Leu Pro Asp Leu Gln Ser Gly  
65 70 75 80

Trp Arg Phe Pro Ser Trp Lys Ala Arg Arg Gln His Arg Leu Val Leu  
85 90 95

Lys Thr Cys Arg Gln Thr Cys Glu Pro Glu Ser Trp Asn His Thr Leu  
100 105 110

Arg His Arg Arg Lys Gly Ser Leu Leu Gly Ser Gln Tyr Arg Pro Arg  
115 120 125

Ala Pro Glu Arg Ala Ser Phe Glu Trp Gly Leu His Val Thr Val Pro  
130 135 140

Gly Arg Glu Leu Leu Pro Val Pro Leu Glu Ala Pro Gly Glu Val Val  
145 150 155 160

Ser Gly Asn Ala Thr Xaa Ala Leu Leu Pro Phe Xaa Val Asp Ala Phe  
165 170 175

Ala Gly Gln Ala Asn Ile Gly Ala Cys Pro Glu Asp Leu His Leu Lys  
180 185 190

Ile Val Pro Val Gln Val Gln Thr Leu Leu Gly Gln His Leu Pro Pro  
195 200 205

Val Gln Glu Pro Ala Gly Glu Val Arg Val Gly Met Leu Pro Gly Arg  
 210 215 220

Gly Val Gly Asp Leu Ala Val Leu Leu Leu Gln Pro Glu Ile Leu Val  
 225 230 235 240

Cys Cys Val Arg Val Glu Arg Asp Val Xaa His Ile Leu Glu Glu Leu  
 245 250 255

Phe Pro Gly Ala Gly Leu Arg Phe Gly Ser Pro Ile Phe Ala Leu Asn  
 260 265 270

Asn Gly Arg His Leu Ser Ser Asp Val Ile Leu Leu Phe Leu Gly Lys  
 275 280 285

Leu Leu Glu Leu Phe Leu Ile Val Leu Gln Xaa Xaa Asp  
 290 295 300

<210> 503  
 <211> 196  
 <212> PRT  
 <213> Homo sapiens

<400> 503  
 Ser Lys Ile Lys Tyr Asp Trp Tyr Gln Thr Glu Ser Gln Val Val Ile  
 1 5 10 15

Thr Leu Met Ile Lys Asn Val Gln Lys Asn Asp Val Asn Val Glu Phe  
 20 25 30

Ser Glu Lys Glu Leu Ser Ala Leu Val Lys Leu Pro Ser Gly Glu Asp  
 35 40 45

Tyr Asn Leu Lys Leu Glu Leu Leu His Pro Ile Ile Pro Glu Gln Ser  
 50 55 60

Thr Phe Lys Val Leu Ser Thr Lys Ile Glu Ile Lys Leu Lys Lys Pro  
 65 70 75 80

Glu Ala Val Arg Trp Glu Lys Leu Glu Gly Gln Gly Asp Val Pro Thr  
 85 90 95

Pro Lys Gln Phe Val Ala Asp Val Lys Asn Leu Tyr Pro Ser Ser Ser  
 100 105 110

Pro Tyr Thr Arg Asn Trp Asp Lys Leu Val Gly Glu Ile Lys Glu Glu  
 115 120 125

Glu Lys Asn Glu Lys Leu Glu Gly Asp Ala Ala Leu Asn Arg Leu Phe  
 130 135 140

Gln Gln Ile Tyr Ser Asp Gly Ser Asp Glu Val Lys Arg Ala Met Asn  
 145 150 155 160

Lys Ser Phe Met Glu Ser Gly Gly Thr Val Leu Ser Thr Asn Trp Ser  
 165 170 175

Asp Val Gly Lys Arg Lys Val Glu Ile Asn Pro Pro Asp Asp Met Glu

190

Glu Leu Thr Lys Ala Leu Glu Gln Lys Pro Asp Asp Ala Gln Tyr Tyr



205

35

40

45

Cys Gln Arg Ala Tyr Cys His Ile Leu Leu Gly Asn Tyr Cys Val Ala  
50 55 60

Val Ala Asp Ala Lys Lys Ser Leu Glu Leu Asn Pro Asn Asn Ser Thr  
65 70 75 80

Ala Met Leu Arg Lys Gly Ile Cys Glu Tyr His Glu Lys Asn Tyr Ala  
85 90 95

Ala Ala Leu Glu Thr Phe Thr Glu Gly Gln Lys Leu Asp Ser Ala Asp  
100 105 110

Ala Asn Phe Ser Val Trp Ile Lys Arg Cys Gln Glu Ala Gln Asn Gly  
115 120 125

Ser Glu Ser Glu Val Val Ser Pro Lys Phe Ser Phe Phe Met Phe Leu  
130 135 140

Leu Phe  
145

<210> 507

<211> 38

<212> PRT

<213> Homo sapiens

<400> 507

Leu Glu Glu Leu Thr Lys Ala Leu Glu Gln Lys Pro Asp Asp Ala Gln  
1 5 10 15

Tyr Tyr Cys Gln Arg Ala Tyr Cys His Ile Leu Leu Gly Asn Tyr Cys  
20 25 30

Val Ala Val Ala Asp Ala  
35

<210> 508

<211> 31

<212> PRT

<213> Homo sapiens

<400> 508

Ala Met Leu Arg Lys Gly Ile Cys Glu Tyr His Glu Lys Asn Tyr Ala  
1 5 10 15

Ala Ala Leu Glu Thr Phe Thr Glu Gly Gln Lys Leu Asp Ser Ala  
20 25 30

<210> 509

<211> 37

<212> PRT

<213> Homo sapiens



Gln Gln Ile Tyr Ser Asp Gly Ser Asp Glu Val Lys Arg Ala Met Asn  
 180 185 190

Lys Ser Phe Met Glu Ser Gly Gly Thr Val Leu Ser Thr Asn Trp Ser  
 195 200 205

Asp Val Gly Lys Arg Lys Val Glu Ile Asn Pro Pro Asp Asp Met Glu  
 210 215 220

Trp Lys Lys Tyr  
 225

<210> 512  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 512  
 Thr Cys Lys Asn Leu Ser Leu Ser Thr Tyr Gln Asn Gln Ser Ala Ser  
 1 5 10 15

Gln Trp Thr His Gln Ser Lys Ile Lys Tyr Asp Trp Tyr  
 20 25

<210> 513  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 513  
 Glu Lys Glu Leu Ser Ala Leu Val Lys Leu Pro Ser Gly Glu Asp Tyr  
 1 5 10 15

Asn Leu Lys Leu Glu Leu Leu His  
 20

<210> 514  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 514  
 Leu His Pro Ile Ile Pro Glu Gln Ser Thr Phe Lys Val Leu Ser Thr  
 1 5 10 15

Lys Ile Glu Ile Lys Leu Lys Lys Pro Glu Ala Val Arg  
 20 25

<210> 515  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens





<210> 523  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 523  
 Met His Cys Gly Thr Arg Val Trp Lys Thr Met Lys His Asp Tyr Phe  
           1                  5                  10                  15

Leu Leu Ala Cys Leu Ser Met Thr Ser Thr Gly Gly Ile Leu Cys Thr  
                   20                  25                  30

Leu

<210> 524  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 524  
 Ser Thr Leu Ser Leu Ile Pro Thr Ser Ser Ser Leu Ser Phe Trp Pro  
           1                  5                  10                  15

Trp Cys Thr Ala Ile Ile Gly Ser Ile Phe Thr Tyr Cys Val Cys Val  
                   20                  25                  30

Cys Val Cys Phe Val Val Met Asn Arg Thr Cys Tyr Leu Pro Asn Ser  
           35                  40                  45

Ile Ile Tyr His Asn Ser Lys Leu Ala Thr Ile Ile Asp Lys Ser Met  
           50                  55                  60

Thr Leu Ser  
           65

<210> 525  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 525  
 Met Trp Ile Leu Pro Lys Val Ser Leu Ile Cys Ile Val Glu Leu Gly  
           1                  5                  10                  15

Tyr Gly Lys Pro  
           20

<210> 526  
 <211> 40  
 <212> PRT

<213> Homo sapiens

<400> 526

Met Cys Val Thr Arg Met His Val Lys Cys Pro Pro Pro Ser Ala Ser  
1 5 10 15

Val Thr Ala Val Lys Trp Pro Leu Ser Trp Ser Ser Ser Ser Phe Cys  
20 25 30

Ile Ser Leu His Ala Gly Arg His  
35 40

<210> 527

<211> 36

<212> PRT

<213> Homo sapiens

<400> 527

Glu Glu Arg Asn Lys Asn His Leu Ser Cys Gln Gly Leu Ser Thr Ile  
1 5 10 15

Cys Cys Ser Tyr Leu Ser Ser Lys Gly Glu His Leu Arg Asn Leu Ser  
20 25 30

Pro Tyr Ser Phe  
35

<210> 528

<211> 46

<212> PRT

<213> Homo sapiens

<400> 528

Gly Leu Cys Met Val His Ser Leu Leu Thr Ser Ser Leu Gly Gly Arg  
1 5 10 15

Cys Cys Asn Tyr Pro Tyr Ile Ala Asp Lys Asp Ile Glu Thr Glu Val  
20 25 30

Lys Pro Pro Ser Gln Gly His Thr Trp His Leu His Cys Ser  
35 40 45

<210> 529

<211> 75

<212> PRT

<213> Homo sapiens

<400> 529

Gln Leu Trp Cys Ile Thr Ala Leu Pro Ser Thr Arg His Cys Ser Lys  
1 5 10 15

Gly Phe Ala Trp Phe Thr His Ser Leu Arg His Pro Ser Val Ala Gly  
20 25 30

Ala Val Ile Ile Leu Ile Leu Gln Thr Arg Thr Leu Arg Gln Arg Ser







214

Gly Lys Ala Ser Phe Ile Lys Val Arg Thr Arg Glu Arg Lys Leu Leu  
145 150 155 160

Lys Gly Thr Phe Val Gly Glu Val Asp Ser Lys Cys Trp Val Thr Gly  
165 170 175

Met Ser Glu Pro Ala Asp Ser Pro Pro Val Gly  
180 185

<210> 535

<211> 51

<212> PRT

<213> Homo sapiens

<400> 535

Leu Gln Asp Glu Gly Lys Asp Lys Ala Leu Lys Ser Ser Gln Ala Phe  
1 5 10 15

Phe Ser Lys Leu Gln Asp Gln Val Lys Met Gln Ile Asn Asp Ala Lys  
20 25 30

Lys Thr Glu Lys Lys Lys Lys Lys Arg Gln Asp Ile Ser Val His Lys  
35 40 45

Leu Lys Leu  
50

<210> 536

<211> 29

<212> PRT

<213> Homo sapiens

<400> 536

Asp Glu Gly Lys Asp Lys Ala Leu Lys Ser Ser Gln Ala Phe Phe Ser  
1 5 10 15

Lys Leu Gln Asp Gln Val Lys Met Gln Ile Asn Asp Ala  
20 25

<210> 537

<211> 28

<212> PRT

<213> Homo sapiens

<400> 537

Glu Glu Asn Pro Glu His Val Glu Ile Gln Lys Met Met Asp Ser Leu  
1 5 10 15

Phe Leu Lys Leu Asp Ala Leu Ser Asn Phe His Phe  
20 25

<210> 538

<211> 13

<212> PRT  
 <213> Homo sapiens

<400> 538  
 Ser Asn Leu Pro Ala Ile Thr Met Glu Glu Val Ala Pro  
     1                    5                    10

<210> 539  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 539  
 Ser Ser Val Asp Gln Ala Gly Lys Tyr Ser Lys Thr Val Ala Ser Glu  
     1                    5                    10                    15  
 Lys Leu Lys Gln Leu Thr Lys Thr Gly Lys Ala Ser Phe Ile Lys  
                     20                    25                    30

<210> 540  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 540  
 Val Ser Val Ser Asp Ala Ala Leu Leu Ala Pro Glu Glu Ile Lys Glu  
     1                    5                    10                    15  
 Lys Asn Lys Ala Gly Asp Ile  
                     20

<210> 541  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 541  
 Val Leu Glu Val Met Val Thr Val Ala Pro Lys  
     1                    5                    10

<210> 542  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 542  
 Leu Gln Asp Glu Gly Lys Asp Lys Ala Leu Lys Ser Ser Gln Ala Phe  
     1                    5                    10                    15  
 Phe Ser Lys Leu Gln Asp Gln Val Lys Met Gln Ile Asn Asp Ala Lys  
                     20                    25                    30

Lys Thr Glu

<210> 543  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 543  
 Val Lys Pro Pro Asp Gln Ser Cys Asn His Trp Arg Asp Glu Gln Cys  
 1 5 10 15

Leu Val

<210> 544  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 544  
 Met Leu Tyr Leu Ile Leu Ile Ser Leu Ser Ser Leu Ser Phe Ser Phe  
 1 5 10 15

Ser Leu Pro Pro Phe Ser Ile Ile Ile  
 20 25

<210> 545  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 545  
 Ser Ser Tyr Phe Leu Arg His Phe Arg Ile Tyr His Thr Cys Pro Lys  
 1 5 10 15

Tyr Phe Ser Met Asn Ile Ile Asn  
 20

<210> 546  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 546  
 Lys Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val  
 1 5 10 15

Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala  
 20 25 30

Arg Asp Ser Leu Pro Asn Ser Thr Met Met Phe Tyr Tyr Ala Cys Phe  
 35 40 45

400T0T=822E2550

217

Ile Leu Tyr Ser Ser Leu Ser Pro Leu Ser Leu Ser Leu Ser Pro Ser  
50 55 60

Leu Leu Ser Leu Leu  
65

<210> 547

<211> 14

<212> PRT

<213> Homo sapiens

<400> 547

Gln Phe His Thr Gly Asn Ser Tyr Asp His Asp Tyr Ala Lys  
1 5 10

<210> 548

<211> 22

<212> PRT

<213> Homo sapiens

<400> 548

Ile Arg His Glu Glu Ser Phe Asn Pro Leu Thr Cys Gly Phe Ser Leu  
1 5 10 15

Phe Phe Ser Leu Phe Ser  
20

<210> 549

<211> 27

<212> PRT

<213> Homo sapiens

<400> 549

Met Glu Thr Leu Leu Leu Leu Leu Phe Phe Leu Ser Leu Leu Ile Phe  
1 5 10 15

Arg Phe Arg Ile Leu Val Ser Gln Cys Ile Asn  
20 25

<210> 550

<211> 65

<212> PRT

<213> Homo sapiens

<400> 550

Phe Leu Leu Thr Thr Val Leu Leu Phe Ser Ser Lys Val Arg Asp Pro  
1 5 10 15

Arg Ala Asn Phe Asp Gln Ser Leu Arg Val Leu Lys His Ala Lys Lys  
20 25 30

Val Gln Pro Asp Val Ile Ser Lys Thr Ser Ile Met Leu Gly Leu Gly  
35 40 45

099999-101001



&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 554

Met Leu Leu Ser Leu Leu Met Val Phe Thr Ser Glu Leu Tyr Val Lys  
 1 5 10 15

Arg His Ile Ser Phe Lys Ser Xaa Asp Lys Pro His Cys His Lys Asn  
 20 25 30

Gln Asp Ile Asp Val Leu Phe Arg Lys Leu Leu Glu Lys His Phe Lys  
 35 40 45

Val Ile Asn Met Ile Cys Phe Pro  
 50 55

&lt;210&gt; 555

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 555

Phe Arg Glu Tyr Gly Phe Tyr Asn Leu His Phe Cys  
 1 5 10

&lt;210&gt; 556

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 556

Leu Val Thr Thr Asp Tyr Tyr Asp Gly Cys Asn Glu Asp Tyr Glu Tyr  
 1 5 10 15

Asn Trp Ser Tyr Met Phe Leu Asn Ser Glu Gln Leu Phe Ile Lys Phe  
 20 25 30

Tyr Pro Thr Phe Phe Cys  
 35

&lt;210&gt; 557

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 557

Asn Val Ile Ala Pro Gly Leu Glu Ser Ser Cys Ala Asn Ser Leu Phe  
 1 5 10 15

Leu Leu Phe Val Cys Leu Pro Val Ala His His Arg His Asn Phe Leu  
 20 25 30

00973278-101001

220

Phe Ile Lys His Ser Leu Tyr Asn His Leu Arg Asp Tyr Glu Ser Asp  
 35 40 45

Phe Asp Lys Ile  
 50

<210> 558

<211> 82

<212> PRT

<213> Homo sapiens

<400> 558

Leu Asn Ile Asp Ser Phe Asp Tyr Gly Lys Phe Glu Ser Leu Leu Ala  
 1 5 10 15

Lys Gln His Tyr Lys Phe Ser Phe Leu Leu Pro Leu Ala Ala Gly Thr  
 20 25 30

Glu Arg Cys Lys Trp Trp Leu Lys Ile Glu Glu Ala Ser Ser Asp Gln  
 35 40 45

Cys Gly Cys Trp Phe Leu Val Lys Cys Val Pro Lys Pro Pro Ser Pro  
 50 55 60

Cys Arg Gln Pro Pro Thr Gln Val Ser Lys Ile Gly His Ala Pro Phe  
 65 70 75 80

Phe Leu

<210> 559

<211> 52

<212> PRT

<213> Homo sapiens

<400> 559

Gln Glu Phe Gln Thr Gly Leu Gly Asn Met Val Lys Pro Cys Leu Tyr  
 1 5 10 15

Glu Lys Tyr Arg Asn Ile Ser Trp Leu Trp Trp His Thr Pro Val Val  
 20 25 30

Pro Ala Thr Trp Glu Ala Glu Val Gly Gly Ser Leu Glu Pro Gly Arg  
 35 40 45

Leu Arg Leu Gln  
 50

<210> 560

<211> 65

<212> PRT

<213> Homo sapiens

<400> 560

Ile Leu Gly Gly Glu Ser Ile Leu Ile Leu Ser Trp Val Phe Ser Tyr

09973228-1001



221

1		5		10		15									
Ile	Phe	Phe	Arg	Ile	Ala	Leu	Glu	Ile	Thr	Ile	Tyr	Ile	Leu	Asn	Val
			20					25					30		
Ser	Pro	Phe	Cys	Leu	Gly	Arg	Trp	Leu	Met	Pro	Val	Ile	Pro	Ala	Leu
		35					40					45			
Trp	Glu	Ala	Glu	Val	Gly	Gly	Leu	Pro	Glu	Leu	Arg	Ser	Ser	Arg	Pro
	50					55					60				
Ala															
65															

<210> 561  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 561

Val	Leu	Cys	Glu	Glu	Ala	Gly	Gln	Lys	Val	Pro	Ser	Thr	Pro	Ser	Trp
1				5					10					15	
Ser	Ser	Trp	Thr	Leu	Gln	Lys	Arg	Leu	Arg	Gly	Ser	Pro	Ala	Glu	Ala
			20					25					30		
Asn	Cys	Ser	Pro	Ser	Phe	Pro	Ala	Pro	Pro	Gly	Lys	Glu			
		35					40					45			

<210> 562  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<400> 562

Met	Ser	Leu	Ser	Ala	Leu	Ala	Cys	Asp	Phe	Thr	Pro	Ile	Gln	Pro	Trp
1				5					10					15	
Glu	Trp	Glu	Glu	Tyr	Glu	Gln	Ile	Thr	Leu	Gly	Leu	Thr	Ala	Pro	Ser
			20					25					30		
Asn	Leu	Leu	Glu	Ser	Asn	Tyr	Leu	Gly	Gln	Ala	Ser	Glu	Cys	Phe	Val
		35					40					45			
Arg	Lys	Leu	Val	Arg	Arg	Phe	Pro	Gln	Leu	Leu	Pro	Gly	Pro	Pro	Gly
	50					55					60				
His	Cys	Arg	Lys	Asp	Leu	Gly	Asp	Pro	Gln	Gln	Arg	Pro	Ile	Ala	Leu
65					70				75					80	
Leu	Pro	Ser	Leu	Pro	His	Gln	Glu	Arg	Asn	Asn	Val	His	Arg	Leu	Glu
				85					90					95	
Ala	Asp	Ser	Glu	Val	Asp	Leu									
			100												

0992228.101001

<210> 563  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 563  
 Cys Val Asp Phe Asp Glu Tyr Phe Ser Ser Trp Glu Pro Leu Leu Lys  
           1                  5                  10                  15  
 Met Met Phe Lys Gly Val Val Gly Gly Lys Met Lys Ala Trp Arg Arg  
                   20                  25                  30  
 Lys Lys Arg Arg Lys Pro Leu Pro Tyr Lys Ile His Ala Asp  
                   35                  40                  45

<210> 564  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 564  
 Met Met Phe Lys Gly Val Val Gly Gly Lys Met Lys Ala Trp Arg Arg  
           1                  5                  10                  15  
 Lys Lys Arg Arg Lys Pro Leu Pro Tyr Lys Ile His Ala Asp  
                   20                  25                  30

<210> 565  
 <211> 162  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 565  
 Xaa Leu Trp Asp Pro Gly Leu Pro Gly Val Cys Arg Cys Gly Ser Ile  
           1                  5                  10                  15  
 Val Leu Lys Ser Ala Phe Ser Val Gly Ile Thr Thr Ser Tyr Pro Glu  
                   20                  25                  30  
 Xaa Arg Leu Pro Ile Ile Phe Asn Lys Val Leu Leu Pro Arg Gly Xaa  
                   35                  40                  45

Ala Leu Gln Pro Cys His Arg Gly Ser Ser Ser Val Leu Ser Gln Gly  
50 55 60

Ile Tyr Tyr Phe Ser Tyr Asp Ile Thr Leu Ala Asn Lys His Leu Ala  
65 70 75 80

Ile Gly Leu Val His Asn Gly Gln Tyr Arg Ile Lys Thr Phe Asp Ala  
85 90 95

Asn Thr Gly Asn His Asp Val Ala Ser Gly Ser Thr Val Ile Tyr Leu  
100 105 110

Gln Pro Glu Asp Glu Val Trp Leu Glu Ile Phe Phe Thr Asp Gln Asn  
115 120 125

Gly Leu Phe Ser Asp Pro Gly Trp Ala Asp Ser Leu Phe Ser Gly Phe  
130 135 140

Leu Leu Tyr Val Asp Thr Asp Tyr Leu Asp Ser Ile Ser Glu Asp Asp  
145 150 155 160

Glu Leu

<210> 566

<211> 15

<212> PRT

<213> Homo sapiens

<400> 566

Gly Ser Ile Val Leu Lys Ser Ala Phe Ser Val Gly Ile Thr Thr  
1 5 10 15

<210> 567

<211> 14

<212> PRT

<213> Homo sapiens

<400> 567

Gly Ile Tyr Tyr Phe Ser Tyr Asp Ile Thr Leu Ala Asn Lys  
1 5 10

<210> 568

<211> 13

<212> PRT

<213> Homo sapiens

<400> 568

Asp Ser Leu Phe Ser Gly Phe Leu Leu Tyr Val Asp Thr  
1 5 10

<210> 569

00933-1000

<211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 569  
 Asn His Asp Val Ala Ser Gly Ser Thr Val Ile Tyr Leu  
 1 5 10

<210> 570  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 570  
 Ile Thr Pro Leu Gly Leu Gly Ala Ala Asp  
 1 5 10

<210> 571  
 <211> 149  
 <212> PRT  
 <213> Homo sapiens

<400> 571  
 Thr Leu Arg Val Leu Gly Lys Val Pro Ala Val Cys Pro Trp Cys Ala  
 1 5 10 15

Leu Trp Arg Lys Ala Gly Met Asp Met Thr Tyr Ser Trp Leu Ser Arg  
 20 25 30

Gly Asp Ser Thr Tyr Thr Phe His Glu Gly Pro Val Leu Ser Thr Ser  
 35 40 45

Trp Arg Pro Gly Asp Ser Ala Leu Ser Tyr Thr Cys Arg Ala Asn Asn  
 50 55 60

Pro Ile Ser Asn Val Ser Ser Cys Pro Ile Pro Asp Gly Pro Phe Tyr  
 65 70 75 80

Ala Asp Pro Asn Tyr Ala Ser Glu Lys Pro Ser Thr Ala Phe Cys Leu  
 85 90 95

Leu Ala Lys Gly Leu Leu Ile Phe Leu Leu Leu Val Ile Leu Ala Met  
 100 105 110

Gly Leu Trp Val Ile Arg Val Gln Lys Arg His Lys Met Pro Arg Met  
 115 120 125

Lys Lys Leu Met Arg Asn Arg Met Lys Leu Arg Lys Glu Ala Lys Pro  
 130 135 140

Gly Ser Ser Pro Ala  
 145

<210> 572  
 <211> 21

00973278-101001

<212> PRT  
 <213> Homo sapiens

<400> 572  
 Ala Val Cys Pro Trp Cys Ala Leu Trp Arg Lys Ala Gly Met Asp Met  
           1                          5                          10                          15

Thr Tyr Ser Trp Leu  
                           20

<210> 573  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 573  
 Pro Gly Asp Ser Ala Leu Ser Tyr Thr Cys Arg Ala Asn Asn Pro Ile  
           1                          5                          10                          15

Ser Asn Val Ser Ser Cys Pro Ile  
                           20

<210> 574  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 574  
 Tyr Ala Ser Glu Lys Pro Ser Thr Ala Phe Cys Leu Leu Ala Lys Gly  
           1                          5                          10                          15

Leu Leu Ile Phe Leu Leu Leu Val  
                           20

<210> 575  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 575  
 Gln Lys Arg His Lys Met Pro Arg Met Lys Lys Leu Met Arg Asn Arg  
           1                          5                          10                          15

Met Lys Leu Arg Lys Glu Ala Lys Pro Gly  
                           20                          25

<210> 576  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 576  
 Leu Ser Tyr Ser Val Leu Leu Ile Leu Pro Leu Phe His Ser Leu Pro

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Tyr Val Gly Thr Ser Ser Leu Gln Gln Lys Leu Ser Asn Trp Gly His  
 1 5 10 15

Leu Asn Arg Lys Val Leu Lys Arg Leu  
 20 25

<210> 583

<211> 97

<212> PRT

<213> Homo sapiens

<400> 583

Gly Ser Ala Trp Arg Arg Gly Arg Gly Ala Gly Ser Arg Ala Pro Ala  
 1 5 10 15

Pro Tyr Arg Ser Trp Leu Pro Arg Met Ala Val Ala Thr Trp Met Trp  
 20 25 30

Val Tyr Pro Arg Arg Pro Glu Val Lys Val Ser Arg Thr Pro Arg Glu  
 35 40 45

Gly Val Ser Ser Ala Gly Thr Gly Arg Arg Arg Leu Gly Leu Gln Arg  
 50 55 60

Ile Thr Gly Arg Cys Arg Ala Thr Pro Ala Ser Ser Ser Arg Ser Leu  
 65 70 75 80

Lys Arg Ser Arg Ser Cys Trp Pro Leu Lys Arg Pro Cys Arg Ser Cys  
 85 90 95

Arg

<210> 584

<211> 21

<212> PRT

<213> Homo sapiens

<400> 584

Trp Leu Pro Arg Met Ala Val Ala Thr Trp Met Trp Val Tyr Pro Arg  
 1 5 10 15

Arg Pro Glu Val Lys  
 20

<210> 585

<211> 23

<212> PRT

<213> Homo sapiens

<400> 585

Cys Arg Ala Thr Pro Ala Ser Ser Ser Arg Ser Leu Lys Arg Ser Arg  
 1 5 10 15

Ser Cys Trp Pro Leu Lys Arg

099333 101001



<210> 586  
 <211> 347  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (241)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (243)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 586  
 Glu His Asn Thr Asp Phe Asn Gly Ala Ala Leu Ser Arg Asn Leu Gln  
 1 5 10 15  
 Thr Phe Arg Leu Ser Thr Pro Cys Ala Arg Arg Glu Gly Arg Leu Leu  
 20 25 30  
 Arg Ala His Arg Arg Cys Pro Pro Tyr Ser Trp Arg Ser His Ala Ser  
 35 40 45  
 Pro Leu Pro Leu Gln Leu Leu Arg Ser Pro Ser Pro Arg Trp Val Pro  
 50 55 60  
 Gly Lys Leu Pro Gly Gly Ala Gly Glu Pro Leu Ser Gly Pro Gly Gln  
 65 70 75 80  
 Ile Pro Pro Trp Leu Arg Ala Trp Gly Thr Ser Leu Asp Gly Asp Ala  
 85 90 95  
 Ala Val Leu Gly Ala Gly Arg Gly Pro Asp Ser Gly Gly Val Asp Arg  
 100 105 110  
 Ala Lys Gly Pro Pro Pro Lys Ala Gln Arg Arg Glu Met Gln Gly Arg  
 115 120 125  
 Ala Gln Gly Val Gly His Cys Phe Gly Gly Gln Ala Arg Ser Leu His  
 130 135 140  
 Val Ala Ser Gly Leu Trp Lys Ala Val His Ser Pro Asp Pro Asp Leu  
 145 150 155 160  
 Arg Ser Gly Arg Arg Arg Leu Ser Pro Gly Pro Ala Leu Leu Glu Phe  
 165 170 175  
 Leu Ser His Leu Leu His Ala His Pro Ser Gln Gly Arg Arg Ala Leu  
 180 185 190  
 Gly Pro Gln Gln Ala Arg Glu Ser Ser Gly Leu Arg Pro Pro Asn Gly  
 195 200 205  
 Leu Ser Ile Gly Gly Trp Val Arg Arg Gly Val Gly Ala Leu Ala Gly  
 210 215 220

00333-1000



231

Gly Ala Gly Glu Pro Leu Ser Gly Pro Gly Gln Ile Pro Pro Trp Leu  
1 5 10 15

Arg Ala Trp Gly Thr Ser Leu Asp  
20

<210> 590

<211> 30

<212> PRT

<213> Homo sapiens

<400> 590

Leu Gly Ala Gly Arg Gly Pro Asp Ser Gly Gly Val Asp Arg Ala Lys  
1 5 10 15

Gly Pro Pro Pro Lys Ala Gln Arg Arg Glu Met Gln Gly Arg  
20 25 30

<210> 591

<211> 23

<212> PRT

<213> Homo sapiens

<400> 591

Gln Ala Arg Ser Leu His Val Ala Ser Gly Leu Trp Lys Ala Val His  
1 5 10 15

Ser Pro Asp Pro Asp Leu Arg  
20

<210> 592

<211> 20

<212> PRT

<213> Homo sapiens

<400> 592

His Pro Ser Gln Gly Arg Arg Ala Leu Gly Pro Gln Gln Ala Arg Glu  
1 5 10 15

Ser Ser Gly Leu  
20

<210> 593

<211> 27

<212> PRT

<213> Homo sapiens

<400> 593

Ile Gly Gly Trp Val Arg Arg Gly Val Gly Ala Leu Ala Gly Thr Arg  
1 5 10 15

Ala Ser Pro Arg Gly Pro Gly Arg Arg Ser Pro  
20 25

05973278-101001

<210> 594  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 594  
 Glu Pro Pro Gly Glu Val Phe Asp Pro His Ile Leu Glu Leu Glu Gln  
           1                  5                  10                  15  
 Val Leu Gln Ala Pro Tyr Leu His Leu  
                   20                  25

<210> 595  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 595  
 Val Pro Ala Glu Leu Thr Pro Ser Leu Gly Val Arg Asp Thr Phe Thr  
           1                  5                  10                  15  
 Ser Gly Leu Leu Gly Tyr Thr His Ile His Val Ala  
                   20                  25

<210> 596  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 596  
 His Thr Leu Phe Ile Ser Phe Leu Trp Ala Glu Gly  
           1                  5                  10

<210> 597  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 597  
 Met Leu Pro Val Phe Val Leu Phe Phe Cys Phe Thr Tyr Ser Ala Arg  
           1                  5                  10                  15  
 Lys Gln Ser Val Phe Lys Lys Gly Asn Val Phe Glu  
                   20                  25

<210> 598  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

099338-10100

&lt;400&gt; 598

Ser Pro Cys Ser Ala Ala Glu Cys His Asn Leu Ser Leu Leu Ser Ser  
 1 5 10 15

Cys Ser Leu Val Ser Ser Asn Ile Leu Phe Ser Phe Pro Phe Phe Gly  
 20 25 30

Gln Lys Ala Arg Cys Cys Leu Phe Leu Phe Tyr Phe Ser Ala Ser His  
 35 40 45

Ile Ala His Glu Ser Arg Val Tyr Ser Lys Lys Glu Met Cys Leu  
 50 55 60

&lt;210&gt; 599

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 599

Ala Phe Phe Leu Leu Gln Ala Leu Glu Ile Gln Ser Gln Leu Ala Thr  
 1 5 10 15

Pro Ala Ser Ser Thr Ala Arg Asn Pro Ala Pro Asp Leu His His Pro  
 20 25 30

His Gln Pro Thr Ile Glu Arg Phe Cys Arg His Ser Ser Ser Trp Glu  
 35 40 45

Arg Ile Glu Tyr  
 50

&lt;210&gt; 600

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 600

Met Arg Thr Leu Phe Gly Ala Val Arg Ala Pro Phe Ser Ser Leu Thr  
 1 5 10 15

Leu Leu Leu Ile Thr Pro Ser Pro Ser Pro Leu  
 20 25

&lt;210&gt; 601

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 601

Met Ala Tyr Ala Phe His Arg Thr Ser Thr  
 1 5 10

&lt;210&gt; 602

00938-1001  
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<211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 602  
 Leu Lys Ser Thr Tyr Thr Leu Leu Ser Ile Leu Trp Phe Leu Val Leu  
     1                    5                    10                    15  
 Ile Pro Val Glu Gly Asn  
                     20

<210> 603  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 603  
 Gly Pro Leu Leu Ala Ser His Ala Thr Leu Cys Phe Ser Leu Gly Ser  
     1                    5                    10                    15  
 Lys Phe

<210> 604  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 604  
 Ala Thr Val Pro Gly Ser Ile Tyr Asn Tyr Phe Tyr His Tyr Asn Ala  
     1                    5                    10                    15  
 Gly Ala Leu Lys Pro Glu His Ala Ser Glu Ser Pro Arg Gly Leu Cys  
                     20                    25                    30  
 Ala Gln Thr Ala Gly Pro Phe Pro Ser Phe  
                     35                    40

<210> 605  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 605  
 Ile Arg His Glu Pro Pro Pro Arg Phe Lys Arg Phe Ser Cys Leu  
     1                    5                    10                    15  
 Ser Leu Leu Ser Ser Trp Asp Tyr Arg Arg Ala Pro Pro His Val Ala  
                     20                    25                    30  
 Ile Phe Cys Thr Leu Ser Arg Asp Gly Val Leu Pro His Trp Pro Gly  
                     35                    40                    45  
 Trp Ser Gln Thr Pro Asp Leu Lys  
                     50                    55

TOOT: 322660













&lt;213&gt; Homo sapiens

&lt;400&gt; 625

Met Gly His Leu Phe Val Val Cys Leu Leu Ser Ser Trp Trp Thr Phe  
 1 5 10 15

Arg Pro Phe Ala Leu Ala Val Thr Val Asn His Val Ala Val Asn Ile  
 20 25 30

Val Cys Val Ser Ala Trp Thr Cys Val Ser Cys Ser Leu Gly Arg Ser  
 35 40 45

Cys Gly Leu Glu Gly Ser Phe Leu Phe Pro Leu Glu Thr Leu Trp Phe  
 50 55 60

Pro His Met Val Val Leu Cys Leu Thr Phe  
 65 70

&lt;210&gt; 626

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 626

His Asp Val Leu Gly Ala Arg Asn Ala Ala Cys Val Cys Cys Ser Phe  
 1 5 10 15

Leu Leu Gln Gln Asn Arg Ile Leu Leu Phe Gly Trp Ala Thr Cys Leu  
 20 25 30

Leu Ser Val Tyr Ser Pro Ala Gly Gly His Leu Gly Arg Leu His Trp  
 35 40 45

Arg Leu Leu  
 50

&lt;210&gt; 627

&lt;211&gt; 130

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 627

Met Leu Asp Phe Lys Thr Ser Gln Val Ser Lys Ala Leu Lys Arg Val  
 1 5 10 15

Gly Phe Gly Val Arg Leu Ala Gln Cys Ser Ser Leu Asp Leu Ile Ser  
 20 25 30

Ala Lys Leu His Leu Lys Thr Lys Lys Lys Glu Thr Tyr Ile Thr Ser  
 35 40 45

Thr Val Met Thr Ala Ala Ser Leu Phe Leu Ser Tyr Val Thr Ser Glu  
 50 55 60

Phe Thr Arg Ser Ile Met Ala Thr Phe Tyr Cys Phe Val Leu Lys Leu  
 65 70 75 80

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099323-101001

243

Arg Pro Thr Arg Pro Ile Thr Phe Ser Ser Asn Ile Ser Glu Trp Val  
1 5 10 15  
Pro Ser Thr Gly Phe Gln Asp Leu Glu His Phe Asn Arg Arg Lys Cys  
20 25 30  
Arg Ser Ser Leu His Ser Cys Phe Thr Asp Phe Gln Glu Ala Asp Ser  
35 40 45  
Gly Phe Lys Met Glu Pro Trp Ser Trp Phe Phe Phe Phe Phe Phe  
50 55 60  
Phe Pro Gln Arg Thr Cys Gly Cys Ala Leu Cys Val Leu Phe Leu Phe  
65 70 75 80  
Ser Ile Trp Gly Pro His Gly Lys Glu Leu Leu Asn Ser Phe Leu Tyr  
85 90 95  
Glu Leu Pro Leu Cys Ser Tyr Lys Gly Pro Phe Leu Ser  
100 105

<210> 635  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 635  
Thr Lys Thr Ser Thr Pro Leu Arg  
1 5

<210> 636  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 636  
Ala Ser Phe Gly Ser Cys Ser Leu Ser Leu Pro Cys Ser Ala Arg Glu  
1 5 10 15

Arg Thr Pro Glu Gly Gly Gly Trp Pro Gly Gly Arg Leu Ser Glu Pro  
20 25 30

Leu Pro Ala  
35

<210> 637  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 637  
Ala Pro Asn Val Val Leu Val  
1 5







1

5

&lt;210&gt; 648

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 648

Tyr Thr Lys Asn Cys Thr Gly

1

5

&lt;210&gt; 649

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 649

Asn Ile Arg Ala Phe Tyr Tyr Ala Met Cys Ala Glu Thr Asp Ala Met

1

5

10

15

Leu Gly Glu Ile Ile Leu Ala Leu His

20

25

&lt;210&gt; 650

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 650

Leu Asp Leu Leu Gln Lys Thr Ile Val Ile Tyr

1

5

10

&lt;210&gt; 651

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 651

Met Glu His Arg Gln Phe Tyr Lys Met Ser Met Tyr Glu Ala Ser

1

5

10

15

&lt;210&gt; 652

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 652

His Val Pro Leu Leu Met Met Gly Pro Gly Ile Lys Ala

1

5

10

T00T0T 648650



<210> 657  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 657  
 Phe Pro Glu Ile Thr Tyr Ser Leu Asp Gln Lys Leu  
     1                    5                    10

<210> 658  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 658  
 Asn Tyr Pro Lys Val Ser Ala Ser Val His Gln Tyr Asn Lys Glu Gln  
     1                    5                    10                    15

Phe Ile

<210> 659  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 659  
 Gly Gln Asn Tyr Ser Asn Val Ile Ala  
     1                    5

<210> 660  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 660  
 Arg Trp His Gln Asp Trp Gln  
     1                    5

<210> 661  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 661  
 Pro Arg Lys Tyr Glu Asn Ala Ile  
     1                    5

<210> 662

100101-342660



250

Trp Ile Gly Leu Ser Arg Glu Gln Gly Gln Pro Trp Lys Trp Ile Asn  
1 5 10 15

Gly

<210> 665  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 665  
Cys Pro Glu Ser Trp Ile Gly Phe Gln Arg Lys Cys  
1 5 10

<210> 666  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 666  
Asn Phe Leu Leu Arg Tyr Lys Gly Pro Ser Asp His Trp Ile Gly Leu  
1 5 10 15

<210> 667  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 667  
Ala Ser His Leu Arg Leu Leu Ser Ser Trp Asp Tyr Arg Phe Pro Ile  
1 5 10 15

Leu Gly Ala Gly Glu Cys Ala Tyr Leu Asn Asp Lys Gly Ala Ser Ser  
20 25 30

Ala Arg His Tyr Thr Glu Arg Lys Trp Ile Cys Ser Lys Ser Asp Ile  
35 40 45

His Val  
50

<210> 668  
<211> 76  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (9)

09973228-101001

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 668

Ser Trp Thr Ser Ser Leu Leu Asn Xaa Cys Leu His Ser Lys Glu His  
1 5 10 15

Ser Ile Lys Ala Thr Xaa Ile Trp Arg Leu Phe Phe Xaa Ile Leu Thr  
20 25 30

Ile Ile Leu Cys Gly Met Val Ala Ala Leu Ser Ala Ile Arg Ala Asn  
35 40 45

Cys His Gln Glu Pro Ser Val Cys Ser Ser Ser Cys Met Pro Arg Lys  
50 55 60

Leu Asp Trp Phe Ser Lys Lys Val Phe Leu Phe Phe  
65 70 75

<210> 669

<211> 39

<212> PRT

<213> Homo sapiens

<400> 669

Glu Gln Leu Glu Glu Leu Glu Leu Lys Lys Lys Asp Phe Ile Lys Ile  
1 5 10 15

Leu Glu Ser Val Gln Gly Asn Trp Arg Gln Asn Glu Asp Ser Gly Lys  
20 25 30

Gly Pro Gln Arg Ser Cys Leu  
35

<210> 670

<211> 19

<212> PRT

<213> Homo sapiens

<400> 670

Phe Trp Pro Glu Ser Lys Ile Gln Pro Tyr Lys Asp Met Phe Ser Cys  
1 5 10 15

Glu Ile Ile

09999-10101

<210> 671  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 671  
 Glu Gln Leu Glu Glu Leu Glu Leu Lys Lys Lys Asp Phe Ile Lys Ile  
     1                    5                    10                    15  
 Leu Glu Ser Val Gln Gly Asn Trp Arg Gln Asn Glu Asp Ser Gly Lys  
                     20                    25                    30  
 Gly Pro Gln Arg Ser Cys Leu His Ser Lys Glu His Ser Ile Lys Ala  
                     35                    40                    45  
 Thr Leu Ile Trp Arg Leu Phe Phe Leu Ile  
           50                    55

<210> 672  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 672  
 Glu Asn Phe Leu Leu Arg Tyr Lys Gly Pro Ser Asp His Trp Ile Gly  
     1                    5                    10                    15  
 Leu Xaa Xaa Glu Gln Gly Gln Pro Trp Lys Trp Ile Asn Gly Thr Glu  
                     20                    25                    30  
 Trp Thr Arg Gln  
           35

<210> 673  
 <211> 776  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (709)..(709)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (738)..(738)  
 <223> n equals a,t,g, or c



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<400> 673
tacaacgtcg tgactgggaa aaccctggcg ttacccaact taatcgccct gcagcacatc 60
cccccttcgc cagctggcgt aatagcgaag aggcccgcac cgatcgccct tcccaacagt 120
tgcgagcgcct gaatggcgaa tggcgctga tgcggtatct tctccttacg catctgtgcg 180
gtatttcaca ccgcataatg tgcactctca gtacaatctg ctctgatgcc gcatagttaa 240
gccagccccg acaccgcgca acaccgctg acgcgccctg acgggcttga ctgctcccg 300
catccgctta cagacaagct gtgaccgtct ccgggagctg catgtgtcag aggttttcac 360
cgtcatcacc gaaacgcgcg agacgaaagg gcctcgtgat acgcctatct ttatagggtta 420
atgtcatgat aataatggtt tcttagacgt cagggtggcac ttttcgggga aatgtgcgcg 480
gaaccctat ttgtttatct ttctaaatac attcaaata gtatccgctc atgagacaat 540
aaccctgata aatgcttcaa taatattgcc aaagggaagag tatgagtatt caacatttcc 600
gtgtcgccct tattcccttt attgcggcat tgagcctgtc tgtttttgct caccagaaaa 660
cgctggtgaa agtaaaagat gctgaagatc agttgggtgc acgagtggng tacatcgaac 720
tggatctcaa cagcggtnag atcctcgaga ggtttcgccc ccgaagaacg tttttc 776

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<210> 674
<211> 878
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (741)..(741)
<223> n equals a,t,g, or c

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<400> 674
gaaaaccctg gcgttaccca acttaatcgc cttgcagcac atcccccttt cgccagctgg 60
cgtaaatagc aagaggcccg caccgatcgc ccttcccaac agttgcgcag cctgaatggc 120
gaatggcgcc tgatgcggta ttttctcctt acgcatctgt gcggtatttc acaccgcata 180
tggtgcactc tcagtacaaat ctgctctgat gccgcatagt taagccagcc ccgacacccg 240
ccaacaccgg ctgacgcgcc ctgacgggct tgtctgtctc cggcatccgc ttacagacaa 300
gctgtgaccg tctccgggag ctgcatgtgt cagaggtttt caccgtcatc accgaaacgc 360
gcgagacgaa agggcctcgt gatacgccca tttttatagg ttaatgtcat gataataatg 420
gtttcttaga cgtcaggtgg cacttttcgg ggaaatgtgc gcggaacccc tatttgttta 480
tttttctaaa tacattcaaa tatgtatccg ctcatgagac aataaccctg ataaatgctt 540
caataatatt gaaaaaggaa gagtatgagt attcaacatt tccgtgtcgc ccttattccc 600
ttttttgcgg cattttgcct tctgtttttt gctcaccag aaaacgctgt gaaaagtaaa 660
gatgctgaag atcagttggg tgacagagtg ggttacatcg aactggatct caacagcggg 720
aaaaaccttg agagttttcg nccccgagaa cgtttttcaa tgatgagcac ttttaaagtt 780
ctgctatgtg gcgcggtatt aatccctatt tacgcccggg cagaagcact cggtcgccgg 840
atacactatt ctagaatgac ttggttgagt actaacca 878

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<210> 675
<211> 150
<212> DNA
<213> Homo sapiens

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<400> 675
cgtcgtgact gggaaaaccc tggcgttacc caacttaatc gccttgagc acatccccct 60
ttcgccagct ggcgtaatag cgaagaggcc cgcaccgatc gcccttccca acagttgcgc 120
agcctgaatg gcgaatggcg cctgatgcgg 150

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<210> 676
<211> 845
<212> DNA
<213> Homo sapiens

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<400> 676
cccgctgctt tacaacgtcg agactgggaa aaccctggcg ttacccaact taatcgccct 60
gcagcacatc cccctttcgc cagctggcgt aatagcgaag aggcccgcac cgatcgccct 120

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<210> 677
<211> 8630
<212> DNA
<213> Homo sapiens
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<212> DNA

<213> Homo sapiens

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<212> DNA

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741

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&lt;211&gt; 741

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 714

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 715

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

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&lt;213&gt; Homo sapiens

&lt;400&gt; 718

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&lt;211&gt; 254

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 719

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&lt;211&gt; 271

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 720

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 721

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&lt;211&gt; 2966

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 736

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<400> 741



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&lt;213&gt; Homo sapiens

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&lt;211&gt; 782

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

&lt;400&gt; 818

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&lt;213&gt; Homo sapiens

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 <213> Homo sapiens

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&lt;400&gt; 862

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 863

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 864

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&lt;211&gt; 315

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 865

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&lt;211&gt; 796

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&lt;213&gt; Homo sapiens

&lt;400&gt; 866

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&lt;213&gt; Homo sapiens

&lt;400&gt; 867

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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 870

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 872

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<212> DNA

<213> Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 874

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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 876

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<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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426

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428

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 922

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<211> 553

<212> DNA

<213> Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 924

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 925

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&lt;212&gt; DNA

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<213> Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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